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First Report on implementation of Training, Education and Dissemination activities

WP8 – T8.1

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Lead beneficiary **RGS - Romanian Geoexchange Society (Romania)**

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This document was verified by the project Coordinator and not submitted to an internal review because:

- (a) The format was subject of a preliminary debate (the TED Strategy and the TED Plan already reported in M6),
- (b) The content is a synthesis of all partners own reports / filled in tables.

The versions 1-R and 3-R represent the versions 1 and 3 with the Coordinator observations.

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Publishable summary

The *GEO4CIVHIC D8.4 First report on implementation of TED activities* is a public document delivered in the context of WP8, Task 8.1 – Development of the Training, Education and Dissemination Plan with regard to the yearly reporting of the mentioned activities in M12.

This document has the purpose to inform about the progress in the implementation of the actions included in TED Plan in the first year of the project namely in M1-M12. The target groups for this document are all the identified stakeholders in the TED Strategy:

- Shallow geothermal specialists: Geologists, Manufacturers for GSHP Equipment, GSHP applications designers, GSHP Researchers
- Constructors, architects, building, structural and H&C engineers, technicians and installers
- Energy and Environment Agencies
- Historical buildings and Monument protection specialists
- Regulatory authorities in energy and H&C
- Local authorities and energy decision makers at local, regional and national level
- Real estate investors and funding institutions
- Lawyers (specialised in environment, construction)
- Ecologists, opinion formers, media
- Building owners representatives and general public interested in energy savings and ecology
- Undergraduate and PhD students

The **main conclusion** of the D8.4 First report on implementation of TED activities are:

1. All the 19 project partners: **CNR, UNIPD, UPV, RED, GEOSERV, GALLETTI, TECNALIA, TKI, UNESCO, FAU, RGS, CRES, HYDRA, UBEG, GEOGREEN, PIETRE, SOL, DLH and SUPSI** initiated different actions in M1-M12 as is reflected in the TED implementation synthesis included in the core of this deliverable and in their own reports in Appendix A.
2. The density of TED activities, their intensity and consistency are increasing from year #1 to year #4, as concrete research results are obtained in GEO4CIVHIC. In the second half of the project, as research results will begin to emerge, an increasing tendency will be more evident.
3. In the first year of the project, the main TED effort was mainly located on the shoulders of the Coordinator and of the WP8 leader, who were definitely involved in disseminating the initial project information and in making the project known on the research market.
4. All the identified and potential stakeholders were taken into account with a clear preoccupation to sending to each the suitable information in respect of the GDPR rules.
5. In the first year the website of the project was an important and valuable spearhead of the dissemination actions.

Abbreviations

GEO4CIVHIC	Most Easy, Efficient and Low Cost Geothermal Systems for Retrofitting Civil and Historical Buildings
TED	Training, Education and Dissemination

Introduction

In **GEO4CIVHIC** project the lead partner of WP8 is **Romanian Geoexchange Society**.

The duration of WP8 is 48 months (M1-M48). Task T8.1 duration is also 48 months, of which 6 months for planning and the rest for implementation and reporting (M7-M48).

The TED planning activity was developed in M1-M6 (April – September 2018) and included the following steps:

1. Strategy creation by WP8 leading partner;
2. Debate and approval of the TED Strategy by partners;
3. Partners TED Plans elaboration according the TED Strategy;
4. Consortium TED Plan elaboration as a synthesis of the partners TED plans;
5. Reporting and delivering D8.3 – TED Plan.

In the implementation period of time, 4 deliverables should report the progress of TED Plan:

- 1. After the first 12 months – M12 - D8.4 – This deliverable.**
2. In the second year of the project - M13 - M24 - D8.5
3. In the third year - M25 - M36 - D8.8
4. At the end of the project - M37 - M48 - D8.12.

1. Synthesis of TED activities implemented in M1-M12

The synthesis of the planned and of the implemented actions is presented below in the format set by TED Strategy. The synthesis was realized based on partners TED reports which are in the Appendix A.

In the light yellow colour cells are presented the implemented actions for planned dissemination methods in M1-M12. In the light grey colour cells are presented the implemented actions in M1-M12 in advance. In the white colour cells were presented the N/A - Not Applicable actions (yet).

Dissemination Method according TED Strategy	PLANNING AREA		REPORTING AREA
	Planned actions Description of the concrete planned action(s)	Planned deadlines	Implemented actions
0	1	2	3
1. Training courses	1. The partners appointed by the GA as responsible for the training activity included in their organization TED Plans the task to organize the national workshops and training courses both for specialists and for non-specialists , as follows: Spain – UPV Germany – FAU Romania – PIETRE EDIL Greece – CRES Belgium – GEOGREEN (French) and GALLETTI (Dutch) Ireland – GEOSERV Switzerland – SUPSI Italy – UNIPD Summer / winter school – UNESCO and CNR 2. The WP leaders: WP1 - UNIPD, WP2 - FAU, WP3 – GALLETTI, WP4 – TECNALIA, WP5 – RED, WP6 – GEOSERV, WP7 – SOL, WP8 - RGS and the coordinator, WP9 – CNR included in their TED Plans the task to “train the trainers” for all the partners, before the national course sessions. 3. All the project partners: CNR, UNIPD, UPV, RED, GEOSERV, GALLETTI, TECNALIA, TKI, UNESCO, FAU, RGS, CRES, HYDRA, UBeG, GEOGREEN, PIETRE, SOL, DLH and SUPSI have included in their TED Plans the task to promote the national training courses.	Year #4 M37-M47	N/A
2. Training tools: Manual / Manual Historical buildings / Brochure	1. The leaders of the research WPs: UNIPD, FAU, GALLETTI, TECNALIA, RED, GEOSERV, SOL and UNESCO (for a Special Manual for Historic Buildings with the support of CNR-ISAC) included in their TED Plans the task to elaborate the corresponding chapters in all the training tools (Manuals and Brochures) and the corresponding short movies. 2. The partners appointed as members of PSC – Project Specific Committees) according GA: CNR, UNIPD, RED, SOLINTEL and RGS included in their TED Plans the task of verification of all the training tool aspects: scientific, technic, admin-	Year #3 M25-M36	N/A

	<p>istrative, financial, legal etc.</p> <p>3. The partner having English as native language: GEOSERV included in its own TED Plan the task of linguistic verification of all the training tools.</p> <p>4. The partners included in their TED Plans the (supporting) translation task for the training tools as follows:</p> <p style="padding-left: 20px;">Spanish – UPV with TECNALIA support German – FAU with UBeG support Romanian – PIETRE EDIL with RGS support Greek – CRES French – GEOGREEN Dutch - GALLETTI Italian – UNIPD with CNR support</p> <p>5. The partner responsible for editing the training tools: RGS included this task in its TED Plan.</p> <p>6. All the project partners: CNR, UNIPD, UPV, RED, GEOSERV, GALLETTI, TECNALIA, TKI, UNESCO, FAU, RGS, CRES, HYDRA, UBeG, GEOGREEN, PIETRE, SOL, DLH and SUPSI have included in their TED Plans the tasks related to printing and distributing appropriate training tools to their own stakeholders in the local events.</p>		
<p>3. Project website / Partners websites / Project logo</p>	<p>1. As main responsible for the project website, RGS included in its TED Plan its creation and continuous update.</p> <p>2. All the project partners: CNR, UNIPD, UPV, RED, GEOSERV, GALLETTI, TECNALIA, TKI, UNESCO, FAU, RGS, CRES, HYDRA, UBeG, GEOGREEN, PIETRE, SOL, DLH and SUPSI have included in their TED Plans the task to continuously and promptly supply the website responsible and administrator with all the information regarding the project progress and accomplishments.</p> <p>3. All the project partners : CNR, UNIPD, UPV, RED, GEOSERV, GALLETTI, TECNALIA, TKI, UNESCO, FAU, RGS, CRES, HYDRA, UBeG, GEOGREEN, PIETRE, SOL, DLH and SUPSI have included in their TED Plans the task to continuously and promptly inform their own stakeholders about the project progress and accomplishments through all social media environments and their own organization websites, creating special options in the menu and including links to the GEO4CIVHIC website.</p>	<p>M1 – M48</p>	<p>The project logo was selected from a multitude of alternatives / models after a large consultation of all the partners. An important contribution had PIETRE Edil which proposed the most appreciated logo drawings and finished the final chosen version.</p> <p>The project website was finalized and reported in M6. It can be consulted at the address geo4civhic.eu.</p> <p>Up to M12 the project website was continuously updated / supplied with information and data about events with the contribution of the partners. The partners included information about GEO4CIVHIC in their own websites. The most active was UNESCO and FAU:</p> <p>http://www.unesco.it/it/News/Detail/515 http://www.unesco.org/new/en/member-states/single-view/news/geo4civhic_project_kicked_off_in_italy_with_unesco_as_partne/ http://www.unesco.org/new/en/venice/special-themes/geo4civhic/ https://unesdoc.unesco.org/ark:/48223/pf0000265453 https://www.geoenergy.nat.fau.eu/2018/09/25/6th-month-meeting-eu-funded-project-geo4civhic/ https://www.geoenergy.nat.fau.eu/2018/04/12/kick-off-meeting-european-project-geo4civhic/</p> <p>UPV announced the project in the UPV website https://ictvsc.web.upv.es/portfolio-posts/geo4civhic/</p> <p>HYDRA included news about GEO4CIVHIC kick-off meeting in Padova and about Ferrara demo site (Angels' Gate) in the local online media: https://www.estense.com/?p=735036</p> <p>PIETRE Edil permanently informed the stakeholders about the project progress and events through the company's own website www.pietre-edil.ro and through the social media specially created pages: FB, LinkedIn, Twitter and Instagram.</p> <p>The deliverables due to M12 were uploaded in PUBLIC or PRIVAT area depending on their defined setting.</p> <p>Social media environments - FB, LinkedIn, Twitter and Instagram were also activated and supplied with information.</p>

4. Demo site information / Demo software products and tools	The WP5 leader RED and the other partners involved in the demo cases: CNR, UNIPD, UPV, GALLETTI, FAU, TECNALIA, GEOSERV, HYDRA, TKI, GEOGREEN, UNESCO, PIETRE, DLH, CRES, SUPSI, RGS included in their own TED Plans the tasks of supplying and disseminating the information for the real cases and virtual cases studies in order to be used for identification, analyzes and modeling activities and for the stakeholders information.	M25-M48	N/A
5. Scientific / Technical Articles in specialized media	<ol style="list-style-type: none"> All the project partners: CNR, UNIPD, UPV, RED, GEOSERV, GALLETTI, TECNALIA, TKI, UNESCO, FAU, RGS, CRES, HYDRA, UBeG, GEOGREEN, PIETRE, SOL, DLH and SUPSI have included in their TED Plans the task of informing the national and European specialized media through minimum 3-6 articles on the project duration. All the partners included in their TED Plans the obligation to communicate the publication and to upload the articles in the GEO4CIVHIC project website. CNR, UNIPD, RED and GALLETTI included in their TED Plan the task of cooperating in the creation of articles for Scientific publications. 	M7-M48	RED prepared full papers for the congresses ISEC 2018 (Graz) and EGC 2019 (Den Haag) No article on GEO4CIVHIC results yet, as project in first year only; however, a general article on standards (not specific to GEO4CIVHIC) was realized by UBeG : Sanner, B. (2018): Entwicklung und Stand von Normen und Richtlinien für oberflächennahe Geothermie im In- und Ausland. - <i>bbr</i> 69, 7-8/18, pp. 62-69, Bonn
6. Scientific / Technical Movies	The Coordinator CNR and the WP leaders WP1 - UNIPD, WP2 - FAU, WP3 – GALLETTI, WP4 – TECNALIA, WP5 – RED, WP6 – GEOSERV, WP7 – SOL included in their TED Plans the task of exemplifying and completing the information they included in each chapter of the Manuals with relevant short scientific and technical movies. All the other partners included in their TED plan the task of cooperating at the movies with information / data / images from their own real and virtual demo-cases.	Year #3-4 M25-M36	UNIPD and UNESCO - A dissemination movie has been produced with Bo Live – Università degli Studi di Padova, available on the web: https://ilbolive.unipd.it/it/news/bioedilizia-padova-futuro-polo-umanistico-green
7. European centers of excellence for shallow geothermal applications	The partners responsible / involved for / in this activity in the GA, meaning: UNIPD, CNR, RED, HYDRA, GALLETTI (South Europe – Italy), FAU, GEOSERV, TKI, UNESCO, UBeG (Central – North Europe – Germany), UPV, SOL, TECNALIA (Western Europe – Spain), RGS and PIETRE (Eastern Europe – Romania) included in their TED Plans the task to implement the action and to support the teaching and knowledge dissemination through them.	Year #4 M37-M48	N/A
8. Participation in Standardization Bodies	All the project partners: CNR, UNIPD, UPV, RED, GEOSERV, GALLETTI, TECNALIA, TKI, UNESCO, FAU, RGS, CRES, HYDRA, UBeG, GEOGREEN, PIETRE, SOL, DLH and SUPSI have included in their TED Plans the task of contacting their national and the European standardization bodies in order to contribute at the update of the current standards with provisions resulted in the project research activity for historic buildings applications.	Year #3-#4 M25-M48	UNESCO started the information exchange and planning cooperation with the Green Building Council Italia for the possible standardization of the new technologies developed by GEO4CIVHIC and to build synergies for the future “European centres of excellence for shallow geothermal application in civil and historical buildings”. GEOSERV informed about GEO4CIVHIC the participants in the CEN Technical WG meeting 07/11/2018. UBeG - Contribution to German standard VDI 4640 (member of committee), finalizing and reviewing the English translation of VDI 4640-2; communication with members of CEN TC/451 and with the respective German mirror group at DIN. A presentation on VDI 4640-2 was given by Burkhard Sanner at a side workshop of DGK 2018 in Essen, Germany, on 27.11.2018 SUPSI - 20 th September 2018 “Séminaire 2018 sur les sondes géothermiques” in Ittigen (Bern). Participation and discussion on proximity interference of BHEs. Presentation of GEO4CIVHIC objectives in standardization issues.
9. Links with EU Programs / Platforms / Initiatives	All the project partners: CNR, UNIPD, UPV, RED, GEOSERV, GALLETTI, TECNALIA, TKI, UNESCO, FAU, RGS, CRES, HYDRA, UBeG, GEOGREEN, PIETRE, SOL, DLH and SUPSI have included in their TED Plans the task of identify / contact / link / cooperate in a synergic way with and national and European programs, platforms and initiatives.	M7-M48	CNR maintained the information exchange with ECTP-EGEC-RHC platforms. UNIPD Started joint activity with 4RINEU and Hybrid GEOTABS. UPV maintained a close contact with another H2020-project GEOCOND, as a coordinator and reporting on possible synergies with GEO4CIVHIC. UPV attended RHC-ETIP Geothermal Technology Workshop in Offenburg, Germany on 15.2.2019, participated RHC-ETIP's steering committee as vice-president presenting GEO4CIVHIC in the Geothermal Panel meeting of the RHC platforms and participated at GEOTRAINET training programme.

			<p>RED participated in the webinar of EGEC presenting GEO4CIVHIC, presented poster and leaflets at the ECTP conference in Brussels, presented GEO4CIVHIC in the Geothermal Panel meeting of the RHC platforms.</p> <p>GEOSERV –participated at RHC Steering committee meeting 15/02/2018 Offenburg and informed about GEO4CIVHIC project.</p> <p>UBeG - attended all project meetings within H2020-project GEOCOND, as a partner there and informed about possible synergies with GEO4CIVHIC. Attended virtual meetings of the steering committee of the geothermal panel of RHC-ETIP on 30.4.2018 and 17.7.2018, and the RHC-ETIP Geothermal Technology Workshop in Offenburg, Germany on 15.2.2019.</p> <p>PIETRE Edil get into contact with the RINA Simtex (General Manager Alessandro Romei) and with RENAR - Romanian Accreditation body (General Manager Fanel Iacobescu) and disseminated information about the general objectives of the project. Both of them were interested and asked to receive further information about the progress and the results of the project. Participated at Harmoni Summit 2019 https://www.spire2030.eu/HARMONI 16-17 ian 2019 Brussels, Belgium, Assuralia Meeting Center, and disseminated information about the general objectives of the Project.</p> <p>GEOGREEN kept an active contact with the project BRUGED in Brussels.</p>
<p>10. Internal Project meetings</p>	<p>All the project partners: CNR, UNIPD, UPV, RED, GEOSERV, GALLETTI, TECNALIA, TKI, UNESCO, FAU, RGS, CRES, HYDRA, UBeG, GEOGREEN, PIETRE, SOL, DLH and SUPSI have included in their TED Plans the task of actively participation in internal project meetings.</p>	<p>M1-M48</p>	<p>Within the reported period of time, 2 management meetings were organized in Padua (M1) and Bilbao (M6). The first meeting in Padua was organized by CNR and the second one in Bilbao was organized by TECNALIA, with the supervision of the coordinator. Actually working on the preparation of the 3rd internal meeting in Malta.</p> <p>All the partners actively participated in the 2 management meetings and presented the WP / Tasks in which they are involved or they are leading. All their presentations were uploaded in the website – PRIVATE area.</p> <p>RED participated in the bi-annual management meetings and also participated in internal meetings and site visits for the demo cases in Ferrara (twice), in Malta (twice), Belgium (twice) and the pilot case in Padova (twice); RED organized three meetings with the drilling head and drilling machine manufacturers and drillers.</p> <p>HYDRA co-organized the visits to Malta demo site.</p>
<p>11. Congress / Conference / Workshop presentations</p>	<p>All the project partners: CNR, UNIPD, UPV, RED, GEOSERV, GALLETTI, TECNALIA, TKI, UNESCO, FAU, RGS, CRES, HYDRA, UBeG, GEOGREEN, PIETRE, SOL, DLH and SUPSI have included in their TED Plans the participation in minimum 2 national and international congresses, conferences and workshops with oral communications / papers /, posters, leaflets and brochures presenting project aims and scope, partial and final results of the project activity.</p> <p>Some partners specified the events: UNIPD (EGC 2019, Geofluid 2018, CLIMA 2019, WGC 2020), RGS (EGC 2019 Den Haag, REHVA Clima 2019 Bucharest), UBeG (GeoTherm Offenburg 2020 and / or 2021, EGC 2019, ISEC 2018 Graz), UNESCO (World Heritage Site of Ferrara and its Po Delta- Angels’ gate, World Heritage of Split Croatia).</p>	<p>M7-M48</p>	<p>CNR participation at ISEC 2018 (Graz, October 2018), ECTP (Bruxelles November 2018), Fair of European Innovation in cultural heritage (Bruxelles November 2018) and GeoTHERM 2019 (Offenburg, February 2019) where detailed presented the EU project GEO4CIVHIC.</p> <p>UNIPD had a presentation of the EU projects (Cheap-GSHPs and GEO4CIVHIC) to the National Congress ‘Geotermia a Bassa Entalpia’ 28/6/2018 – Roma. Also participation to Geofluid (5/10/2018) in Piacenza (Italy) where the project has been presented.</p> <p>RED participated at ISEC 2018 (Graz, October 2018), ECTP (Bruxelles November 2018), Fair of European Innovation in cultural heritage (Bruxelles November 2018) and GeoTHERM 2019 (Offenburg, February 2019).</p> <p>GEOSERV participated at Engineers Ireland Training Workshop in conjunction with GEOFIT EU project 24/1/2019 – where GEO4CIVHIC and planned technologies were presented. They also presented the project objectives in “Energy Show 2019” – 27th-28th of March 2019.</p> <p>UNESCO had a presentation of GEO4CIVHIC at the National training workshop on Sustainable Energy and cultural Heritage. 11 -13 December 2018 – Ferrara (Italy).</p> <p>RGS presented the paper “Implementation of a geothermal heat pump system in a solar passive house” covering Task 5.4 “Modelling of virtual cases study, Sub task 5.4.4 Virtual case No. 4: Residential building in Bucharest (ROMANIA). GEO4CIVHIC project. https://sd.utcb.ro/1st-conference-of-the-utcb-doctoral-school/</p>

			<p>UBeG provided draft paper on GEO4CIVHIC for ISEC 2018 and material for presentation, given by Luc Pockelé of RED on 5.10.2018.</p> <p>Drafted and submitted abstract on GEO4CIBHIC for EGC 2019 in fall 2018, and contributed to full paper submitted in time on 11.3.2019 (EGC 2019 will be held 11.-14.6.2019 in Den Haag, NL).</p> <p>SOL participated in the debates on the Near Zero energy building methodology integration in the future architectural plans in the urban surroundings and disseminated information regarding the project in CEVISAMA Fair - https://cevisama.feriavalencia.com/ayudas-para-la-reforma-rehabilitacion-de-viviendas-y-la-regeneracion-urbana-en-el-marco-del-plan-estatal-de-vivienda-2018-2021/ - 28.01.2019. This partner also participated in “Energy revolution 2019” - the yearly energy conference in Spain - 30.01.2019, networking with national and regional policy makers and discussing on industrial initiatives on energy efficiency in buildings (new and retrofitting) with regard of GEO4CIVHIC objectives.</p> <p>SUPSI organized 3 courses: 2018-11-12 Presentation of GEO4CIVHIC and CHEAP projects during the course “Progettazione e dimensionamento di sonde geotermiche in accordo alla SIA 384/6”.</p> <p>2018-11-28 Presentation of GEO4CIVHIC and CHEAP projects during the course “Energia dalle infrastrutture e dall'ambiente”.</p> <p>2019-01-23 Presentation of GEO4CIVHIC and CHEAP projects during the course “Potenziali rinnovabili ed efficienza energetica”.</p> <p>SUPSI organized in 27.03.2019 a scientific event in its own headquarter with the name “Sonde geotermiche: innovazioni tecnologiche e riduzione dei costi di proprietà” devoted to the presentation and dissemination of the research results in Cheap-GSHPs and of GEO4CIVHIC objectives, partners and deadlines, and the correlation between the two projects.</p>
12. National Workshops in partners countries	<p>The partners appointed by the GA as responsible for the training activity included in their TED Programs the task to organize the national workshops as follows:</p> <p>Spain – UPV Germany – FAU Romania – PIETRE EDIL Greece – CRES Belgium – GEOGREEN (French) and GALLETTI (Dutch) Ireland – GEOSERV Switzerland – SUPSI Italy – UNIPD Summer / winter school – UNESCO and CNR</p>	Year #3 M37-M48	N/A
13. Poster Sessions	<p>All the project partners: CNR, UNIPD, UPV, RED, GEOSERV, GALLETTI, TECNALIA, TKI, UNESCO, FAU, RGS, CRES, HYDRA, UBeG, GEOGREEN, PIETRE, SOL, DLH and SUPSI have included in their TED Plans the participation in minimum 2 national and international poster sessions in different national and European events presenting project aims and scope, partial and final results of the project activity.</p>	M7-M48	<p>CNR and RED participated in the poster sessions with GEO4CIVHIC posters in ISEC 2018 (Graz, October 2018), ECTP (Bruxelles November 2018), in the Fair of European Innovation in cultural heritage (Bruxelles November 2018) and in GeoTHERM 2019 (Offenburg, February 2019).</p>
14. Participation at fairs	<p>All the project partners: CNR, UNIPD, UPV, RED, GEOSERV, GALLETTI, TECNALIA, TKI, UNESCO, FAU, RGS, CRES, HYDRA, UBeG, GEOGREEN, PIETRE, SOL, DLH and SUPSI have included in their TED Plans the participation in minimum 1 national / European fair and to disseminate information regarding project objectives and results.</p>	M25-M48	<p>In this early stage of the project, the participation in fairs was focus on promotion of the project’s objectives. Later, after M25 the main focus will be on the research results dissemination.</p> <p>CNR and RED participated at the Fair of European Innovation in cultural heritage (Bruxelles November 2018) presenting GEO4CIVHIC project.</p> <p>GEOSERV participated at Energy Show 2019 – 27th-28th of March 2019.</p> <p>TKI was present at BAUMA 2019 in Munich 08.04.-13.04.2019 and promoted GEO4CIVHIC</p>

			project. SUPSI - participation ad “Edilespo Lugano” (2018-11-14/17) as reference for the Italian Switzerland of the national Geothermie-Schweiz association, discussion and divulgation of GEO4CIVHIC project.
15. Flyers / brochures / leaflets / factsheets / semester newsletters	<ol style="list-style-type: none"> As TED responsible partner, RGS included in the TED plan the elaboration of project’s leaflet, initial brochure, factsheets, newsletters. All the project partners: CNR, UNIPD, UPV, RED, GEOSERV, GALLETTI, TECNALIA, TKI, UNESCO, FAU, RGS, CRES, HYDRA, UBeG, GEOGREEN, PIETRE, SOL, DLH and SUPSI have included in their TED Plans the tasks of disseminating the project mentioned documents (leaflet, initial brochure, factsheets, newsletters) and to create their own dissemination tools in the national language: roll-ups, posters, flyers for their own targeted stakeholders. 	M7-M48	<p>RGS created the Newsletter #1 and the Factsheet #1 in May 2018. https://us19.campaign-archive.com/?u=63b53ed865d159e6d793fb7e4&id=a1987e2a0e</p> <p>The Project’s leaflet and brochure were realized and uploaded in the project website. They were reported in D8.1.</p> <p>CNR coordinated the realization of the mentioned materials and disseminated them at ECTP 2018.</p> <p>RED disseminated the TED materials at ECTP 2018, ISEC 2018, GEOTHERM 2019</p> <p>GEOSERV Joint Geothermal Association of Ireland –ASHRAE Talk (03/12/2019) – project technologies and case study locations presented using the newsletter, factsheet, flyer and brochure.</p> <p>UBeG and all the other partners contributed and reviewed the GEO4CIVHIC brochure and leaflet. UBeG distributed them to own contacts and to national associations in Germany (BVG, BWP).</p> <p>HYDRA distributed GEO4CIVHIC leaflet and brochure in the company stand at Geofluid 2018.</p> <p>PIETRE Edil distributed cca 50 printed brochures and leaflets to stakeholders, clients and collaborators mainly to those involved in the historical buildings rehabilitation.</p>
16. Press releases	CNR and RGS included in their TED Plans the elaboration of project press releases, of joint press releases with the other EU funded projects for occasional events (congresses, conferences, at regional, national and international level.	M7-M48	<p>GEOSERV prepared a press release regarding the Project Summary Publication in Geothermal Association of Ireland Buletting 19-1 (Jan 2019).</p> <p>FAU prepared a press release for dissemination at regional level – see www.erdwaermegemeinschaft.de/wp-content/uploads/2016/06/Erdwaerme_Gemeinschaft_Broschuere_DIN_A4_2018.pdf.</p>
17. Journal articles	All the project partners: CNR, UNIPD, UPV, RED, GEOSERV, GALLETTI, TECNALIA, TKI, UNESCO, FAU, RGS, CRES, HYDRA, UBeG, GEOGREEN, PIETRE, SOL, DLH and SUPSI have included in their TED Plans the cooperation in the elaboration of articles in national and European journals in order to present the project partial and final research results.	M7-M48	N/A
18. E-mails, mailing lists, online discussion lists, blogs	All the project partners: CNR, UNIPD, UPV, RED, GEOSERV, GALLETTI, TECNALIA, TKI, UNESCO, FAU, RGS, CRES, HYDRA, UBeG, GEOGREEN, PIETRE, SOL, DLH and SUPSI have included in their TED Plans the task to realize and continuously update the mailing lists, online discussion list, contact list for newsletter, stakeholders lists for a large dissemination according the GDPR rules.	M1-M48	<p>CNR and RED prepared the mailing lists for ECTP (Bruxelles November 2018), Fair of European Innovation in cultural heritage (Bruxelles November 2018)</p> <p>SUPSI disseminated through email list of all the groups of stakeholders the following two events:</p> <ul style="list-style-type: none"> - http://www.supsi.ch/dacd/eventi-comunicazioni/news/2018/2018-05-25.html - https://geothermie-schweiz.ch/supsi-as-leading-partner-in-eu-projects/?lang=it (email sent to all the Suisse Italian members) <p>PIETRE Edil created on their own company website page a BLOG dedicated to Geo4Civhic project and a link to the project website.</p>
19. Deliverables / Reports / other documents according GA	All the WP responsible partners UNIPD, FAU, GALLETTI, TECNALIA, RED, GEOSERV, SOL, RGS and CNR have included in their TED Plans the task to realize / coordinate the elaboration of the 68 deliverables in the project (WP1 – 6, Wp2 – 7, WP3 – 7, WP4 – 13, WP5 – 9, WP6 – 7, WP7 – 6, WP8 – 12, WP9 – 1). All the other project partners: UPV, TKI, UNESCO, CRES, HYDRA, UBeG, GEOGREEN, PIETRE, DLH and SUPSI have included in their TED Plans the task to realize as task responsible or to cooperate in the elaboration of the 68 deliverables in the project.	M1-M48	<p>All the responsible partners for different deliverables submitted them in due time. The deliverables were uploaded in the website, in public or private area depending on their settings.</p> <p>CNR submitted D9.1, D9.2, D9.3, D10.2 and is working on D1.5, due to month 18. In these period CNR send all his contributions for the other deliverables of the project.</p> <p>In this first 12 month period RED made contributions to the tasks and deliverables T1.1, D1.1; T1.2; D2.1, T2.1; T2.3, T2.2, T2.4; T4.1</p> <p>GEOSERV submitted D6.1 - Regulatory Analysis (M11)</p> <p>TECNALIA submitted D4.2 - GEO4CIVHIC DSS for geothermal retrofit specification and re-</p>

		<p>quirements [M12].</p> <p>UNESCO submitted D5.1 Identification of historical buildings as real and virtual (January 2019).</p> <p>RGS submitted D8.1, D8.2 and D8.3 in M3 and M6 https://geo4civhic.eu/wp-content/uploads/2019/01/GEO4CIVHIC-D8.1.pdf https://geo4civhic.eu/wp-content/uploads/2019/01/GEO4CIVHIC-D8.2.pdf https://geo4civhic.eu/wp-content/uploads/2019/01/GEO4CIVHIC-D8.3-rev-1.pdf</p> <p>UBeG submitted D1.1 “Report on different kind of barriers for shallow geothermal in deep renovation” (public), D2.1 “Overview of vertical geothermal heat exchangers and corresponding drilling machine techniques” (public) in October and December 2018.</p> <p>UPV had an active contribution to the tasks and deliverables in which they are involved: T1.1, D1.1; T1.2; D2.1, T2.1, T2.4; T4.1 and T4.3.</p>
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2. Description of main activities implemented in M1-M12

2.1 Project website

The project website is available at www.geo4civhic.eu and its elaboration process is largely described in the deliverable D8.2 “Production of project website”.

As responsible for WP8, the **Romanian Geoexchange Society** has undergone the assigned activity regarding the construction and the maintenance of the project website – as this website shall represent the most important platform for disseminating the information about the projects’ results. The creation of the website contract was done in an early stage of the project life in order to allow the start of the dissemination from the first months of the project.

The complementary activities for the website construction were:

- (a) Registration of a domain and its purchase;
- (b) Elaboration of the website offer request;
- (c) Launch of the offer;
- (d) Selection of the most qualified bidder and contract signing with the winner;
- (e) Elaboration of the project’s logo;
- (f) Construction of the website.

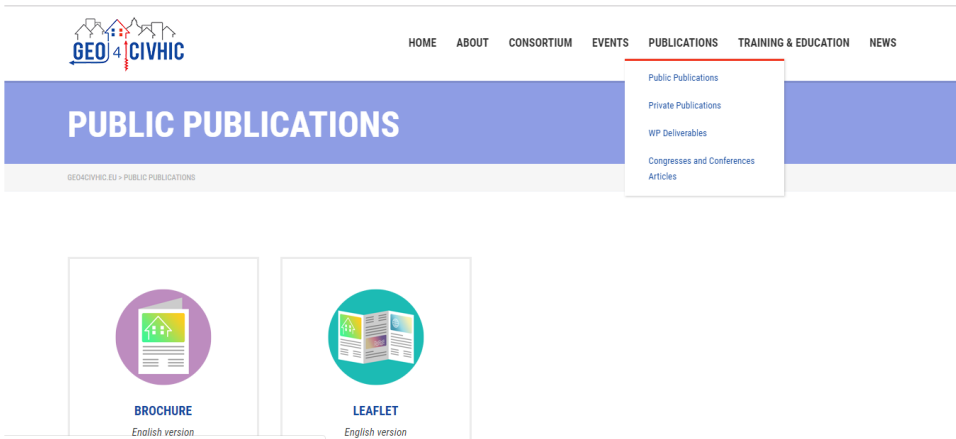
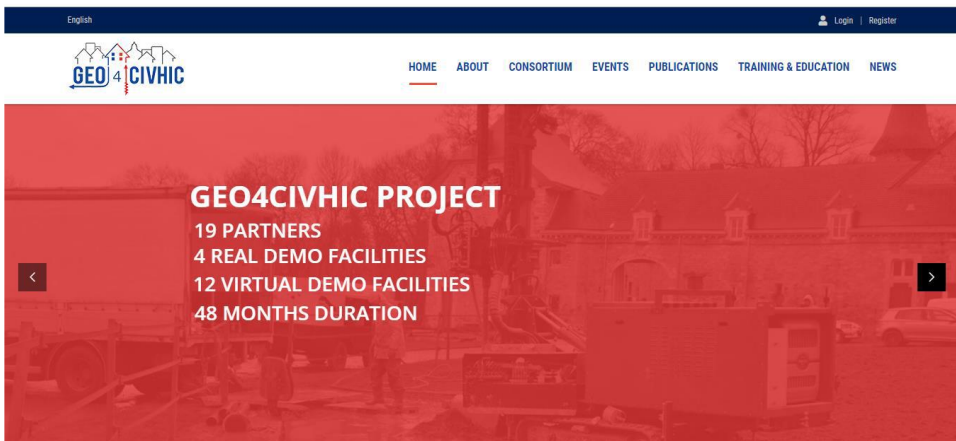
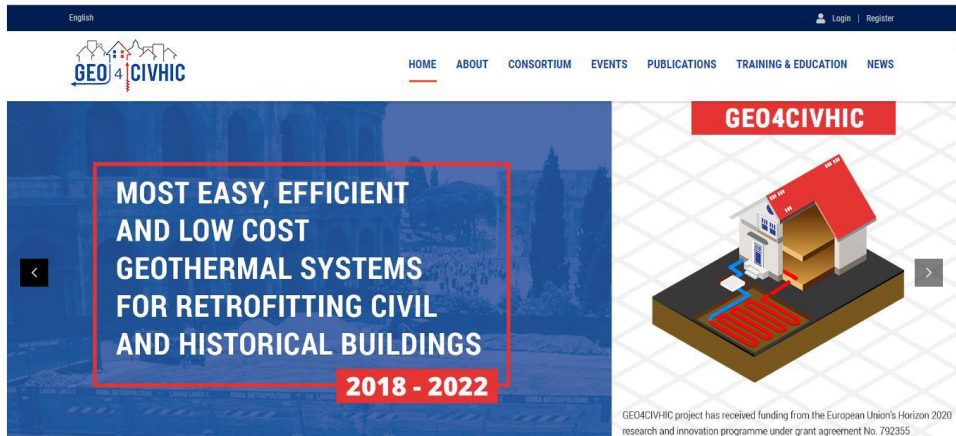


The elaboration of the project’s **logo** was also an activity meant to start at the very beginning of the project due to the need to use the logo in the early deliveries of the project leaflet and brochure. The project's logo was selected / voted by the consortium’s partners.

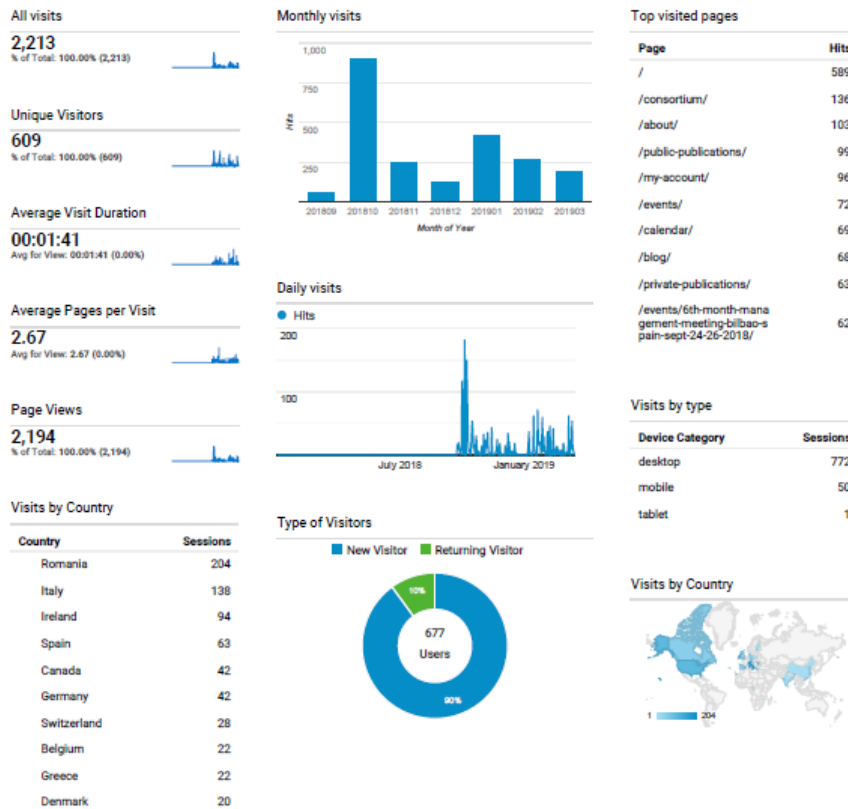
The architecture of the website respects the GA recommendations and was agreed by the consortium’s partners. The elaboration process absorbed all the partner’s remarks and suggestions.

Following the testing procedure and the operation of the required changes and improvements, the WP8 leading partner signed the certificate of acceptance for the project website. According to the development of the project and the requirements risen along this path, the web-site shall be constantly improved, up-graded, developed and adapted to the needs of the project. It will be supplied with information another 2 years after the project final year (2019).

Some representative webpages from the project's website are presented below.



The Website Analytics data shows the impact of the project website and monthly communicates it to the partners.



2.2 Project Leaflet and Brochure

The elaboration process and the final results regarding the project leaflet and brochure was largely described in the deliverable **D8.1 “Production of leaflet and brochure”**.

The **leaflet** presents – in a concentrated form – the main information on the project, namely: title, acronym, addressed call and topic, general information, composition of the Consortium partners, general and specific objectives. It contains also information on the pilot case studies and on the real and virtual demo sites, which will serve to prove the viability of the technical solutions to be developed during the project’s evolution.

The **brochure** presents the same information as above, but in a more detailed form.

The purpose of the leaflet and of the brochure is to disseminate the basic information with regard to the project, at its initial phase.

The target group for both the leaflet and the brochure is represented by: the general public, specialists in shallow geothermal energy and heat pumps (HVAC engineers, installers, drillers, etc.), SMEs from the construction industry, representatives of the local and central public administration (policy bodies, municipal planners, energy managers, etc.), scientific community, professional associations, etc.

Both documents were elaborated by **RGS** in the English language, in electronic printable format and were uploaded in the PUBLIC area of the project website. They can be freely downloaded for dissemination purposes about the project on the occasion of the dissemination activities organized during the lifetime of the project – workshops, courses, conferences, congresses. The two documents were printed by many partners and distributed to their own stakeholders in conferences, congresses and other events.

The two pages of the leaflet can be accessed in the website, at the address geo4civhic.eu/wp-content/uploads/2018/08/Leaflet-GEO4CIVHIC-V2.3.pdf and are visually represented below:

DEMONSTRATION SITES

- 2 FIELD TEST SITES to validate and improve the drilling methodology and machine components.
- 3 PILOT CASE STUDIES in existing infrastructure, to check and validate two types of innovative co-axial heat exchangers, two very shallow heat exchanger solutions, a new plug and play heat pump with advanced controls.
- 4 REAL DEMONSTRATION CASE STUDIES (1 civil and 3 historical) in different built environments, underground and climate conditions will be used to test the shallow geothermal systems with the innovative drilling machine, new ground heat exchangers and the novel heat pumps.
- 12 "VIRTUAL" DEMONSTRATION CASE STUDIES where the decision support system and design tools will be applied.

PILOT CASE STUDIES

- CNR:** Novel heat pumps and innovative co-axial heat exchangers
- TECNALIA:** Plug & play heat pump coupled with other renewable sources and an advanced Building Management System
- UPV:** Very shallow heat exchangers

REAL DEMONSTRATION CASE STUDIES

- Malta (warm climate):** New co-axial heat exchangers and low temperature dual source
- Italy (mild warm climate):** New co-axial heat exchangers and high temperature dual source
- Belgium (mild cold climate):** New co-axial heat exchangers and two level temperature water to water heat pump
- Ireland (odd climate):** New co-axial heat exchangers and high temperature water to water heat pump

VIRTUAL DEMONSTRATION SITES

- Museum of Natural History of Alexandroupolis - Greece Leader: CRES
- Administrative building "Palace de la Cour Royale" - Spain, Leader: UPV
- Residential building Avenida Forestal 2 - Romania, Leader: PIETRE
- Residential building in Bucharest - Romania, Leader: RGS
- Universities building "Ex Ospedale Geriatrico" - Italy, Leader: UNIPD
- Historical building in Split - Croatia, Leader: UNESOD
- University Building in Erlangen - Germany, Leader: FAU
- Historical building "Castle of Alton" - Belgium, Leader: GEOGREEN
- Carnegie Clondalkin Library - Ireland, Leader: GEOSERV
- Administrative building "Palace of the Industry" - Slovakia, Leader: SUPSI
- Residential Building Mariburg Street - Netherlands, Leader: CNR-ISAC
- Residential Building Alameda 6 - Spain, Leader: CNR-ISAC

PARTNERS

2018 - 2022

MOST EASY, EFFICIENT AND LOW COST GEOTHERMAL SYSTEMS FOR RETROFITTING CIVIL AND HISTORICAL BUILDINGS

Acronym: GEO4CIVHIC | Start date: 01/04/2018
 Website: www.geo4civhic.eu | Duration: 4 years
 Topic: LCE-17-2017 | Coordinator: CNR - ISAC
 Type of action: IA | Contact: Adriana Bernardi
 Call: H2020-LCE-2017-RES-IA | a.bernardi@isac.it

Total project budget: 8,143,120.97 €
 EU funding: 6,841,960.75 €

Partners: Geoserv, tecnalia, Galletti, Red, UBEG, GEOEXCHANGE, FAU, HYDRA, GEO GREEN, Din Art Heva, Solintel, SUPSI, Regional Bureau for Science and Culture in Europe.

GEO4CIVHIC Project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 792355

PROJECT'S TECHNOLOGICAL APPROACH

- The main goal of GEO4CIVHIC is to develop and demonstrate easier to install and more efficient ground heat exchangers, using drilling machine innovations tailored for the built environment & developing or adapting heat pumps and other hybrid solutions in combination with renewable energy sources for retrofits through a holistic engineering and controls approach improving their return of investments.
- GEO4CIVHIC's target will accelerate the deployment of shallow geothermal systems for heating and cooling in retrofitting existing and historical buildings by using innovative technological solutions, improvements and enrichment of results obtained from previous EU projects.

THE PROJECT WILL APPLY A DUAL APPROACH TO ACCELERATE THE PENETRATION OF SHALLOW GEOTHERMAL ENERGY PLANTS IN RETROFITTED BUILDINGS

- Reduce cost, increase efficiency and ease of installation of each of the main components of the value chain of the geothermal plant by developing technical innovations in drilling, borehole heat exchangers, heat pumps, integration of other renewable energy sources, controls.
- Develop engineering and decision support tools in a holistic approach to identify the most appropriate solutions, followed by actions raising awareness, increasing credibility and supporting implementation.
- The overall methodology of GEO4CIVHIC follows a holistic approach with the activities grouped by type and organized in a logical sequence from research over innovation to demonstration and evaluation. The communication, dissemination and exploitation runs in parallel over the four other phases. First, the basis for driving these innovations and for monitoring the project progress and results is researched. The innovations are developed in the second phase. Once the developments have been realized the project moves into an extensive demonstration phase. Field tests of the key innovations are followed in a third phase by pilots, full case demonstrations and virtual case studies. Upon results evaluation, a solid basis is built for market exploitation supported by training events, workshops and dissemination activities.

PROJECT'S WORK PACKAGES

WP NO.	WORK PACKAGE TITLE	LEADER
1	Barriers identification, case study modelling and preliminary feasibility studies to define key performance indicators and the basis for innovations	UNIPD
2	Powerful vibration-rotation drilling head mounted on compact drilling machine to install the improved co-axial heat exchangers	FAU
3	Innovative Heat Pumps for Civil and Historical Buildings & NZEB	GALLETTI
4	Decision Support System with design tools, Building Energy Management System and Apps	TECNALIA
5	Demonstration of efficiency of installation of shallow geothermal and heating and cooling in individual retrofitted buildings	RED
6	Environmental impact, Risk assessment and Standard Regulations	GEOSERV
7	Demonstration of cost-effectiveness and efficiency for the systems, exploitation and market	SOLINTEL
8	Training education, dissemination and knowledge sharing (outreaching)	RGS
9	Project and consortium management	CNR-ISAC

OBJECTIVES OF THE TECHNICAL BLOCK

- OBJECTIVE 1** - to identify the main gaps and barriers to deploying shallow geothermal systems in the built environment.
- OBJECTIVE 2** - to improve and develop innovative solutions regarding drilling methodologies and machine components as well as ground heat exchangers targeted at the difficult and confined urban settings.
- OBJECTIVE 3** - to develop and demonstrate innovative heat pumps for both low and high temperature terminals suitable for all buildings, climates and ground conditions.
- OBJECTIVE 4** - develop and make available tools for preliminary feasibility assessment and analysis of different sets of solutions that will achieve user optimized energy management.
- OBJECTIVE 5** - to demonstrate at the project developments and innovation in a cascade setting at 4 different real case study sites and 12 virtual sites.
- OBJECTIVES OF THE ECONOMIC AND MARKET BLOCK**
- OBJECTIVE 6** - to provide the building retrofit market with a solid economic value basis leading towards a general acceptance of the ground source heat pumps as a standard renewable energy source in Europe.
- OBJECTIVE 7** - to organize intensive teaching, training and dissemination activities to convince stakeholders/users of the value and the performance achieved with the shallow geothermal systems using the GEO4CIVHIC innovations.
- OBJECTIVES OF THE ENVIRONMENTAL & STANDARDIZATION BLOCK**
- OBJECTIVE 8** - to enhance the knowledge on recommendations towards common standards & regulation, reduced permitting and awareness of shallow geothermal systems for a more sustainable environment.
- OBJECTIVE 9** - to enhance the activity inside the committees working and collaborating in European standards (CEN) for the use of shallow geothermal systems.

PROJECT'S PROPOSED INNOVATIONS

- Vibration-rotation drill head
- Compact, versatile drilling machine
- Semi-automatic feeder for drilling machine
- Co-axial heat exchangers (steel and plastic)
- Adaptation of well point
- Dual source heat pumps
- Two stage heat pump for high temperature terminals
- Low mid-term GWP refrigerant heat pump working at low temperature
- European drilling maps
- On-site drillability assessment
- Decision support system

The sixteen pages of the brochure can be accessed in the website, at the address geo4civhic.eu/wp-content/uploads/2019/02/Brochure-GEO4CIVHIC-V2.6.pdf and the first and the final pages are visually represented below:




2018 - 2022

MOST EASY,
EFFICIENT AND LOW COST
GEOTHERMAL SYSTEMS
FOR RETROFITTING CIVIL
AND HISTORICAL BUILDINGS

Acronym	GEO4CIVHIC	Start date	01/04/2018
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Type of action	IA	Contact	Adriana Bernardi
Call	H2020-LCE-2017-RES-IA		(a.bernardi@isac.it)

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2018 - 2022

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www.geo4civhic.eu

2.3 Project Presentation in international events

The GEO4CIVHIC project was largely presented in almost 20 international events by all the participant partners. The main events were GEO4CIVHIC objectives and partners were presented are the following:

- ECTP (Bruxelles November 2018) – by **CNR** and **RED**;
- Fair of European Innovation in cultural heritage (Bruxelles November 2018) – by **CNR** and **RED**;
- GeoTHERM 2019 (Offenburg, February 2019) – By **CNR**, **UPV** and **RED**;
- ISEC 2018 (Graz, October 2018) – by CNR, RED and **UBeG**;
- National Congress ‘Geotermia a Bassa Entalpia’ 28/6/2018 – Roma by **UNIPD**;
- Geofluid (5/10/2018) in Piacenza (Italy) – by **UNIPD** and **HYDRA**;
- Engineers Ireland Training Workshop (in conjunction with GEOFIT EU project) - 24/1/2019 – by **GEOSERV**;
- National training workshop on Sustainable Energy and cultural Heritage. 11 -13 December 2018 – Ferrara (Italy) - by **UNESCO**;
- First national conference of doctoral schools (<https://sd.utcb.ro/1st-conference-of-the-utcb-doctoral-school/>) - by **RGS**;

- GEO4CIVHIC full paper submitted for EGC 2019 (11.-14.6.2019 in Den Haag, NL) – by **UBeG and project partners**
- Course “Progettazione e dimensionamento di sonde geotermiche in accordo alla SIA 384/6” (2018-11-12) - by **SUPSI**;
- Course “Energia dalle infrastrutture e dall'ambiente” (2018-11-12) – by **SUPSI**;
- Course “Potenziali rinnovabili ed efficienza energetica”. (2019-01-23) – by **SUPSI**;
- CEVISAMA Fair - <https://cevisama.feriavalencia.com/ayudas-para-la-reforma-rehabilitacion-de-viviendas-y-la-regeneracion-urbana-en-el-marco-del-plan-estatal-de-vivienda-2018-2021/> - 28.01.2019 - Discussion about the Near 0 energy building methodology integration into the future architectural plans in the urban surroundings and presentation of GEO4CIVHIC related objectives – by **SOLINTEL**;
- Congress “Energy revolution - 2019 the year of the energy revolution in Spain” - Participation to the conference - 30.01.2019 - Networking with national and regional policy and industrial initiatives on energy efficiency in buildings (new and retrofitting) and presentation of GEO4CIVHIC related objectives – by **SOLINTEL**;
- Participated at **HARMONI** Summit 2019 <https://www.spire2030.eu/HARMONI> 16-17 January 2019 Brussels, Belgium, Assuralia Meeting Center, and disseminated information about the general objectives of the Project – by **PIETRE EDIL**.
- RHC-ETIP steering committee - Geothermal Panel meeting – Presentation of GEO4CIVHIC - by **UPV**;
- GEOTRAINET annual meeting – December 2018 – Information about GEO4CIVHIC objectives and training programme – by **RGS** and **UPV**.
- **RED** participated in the webinar of EGEc presenting GEO4CIVHIC, presented poster and leaflets at the ECTP conference in Brussels, presented GEO4CIVHIC in the Geothermal Panel meeting of the RHC platforms.

The detailed information and the extended presentations were cronologically included in the project website in EVENTS area – <https://geo4civhic.eu/events/>

Some partners – **RGS, PIETRE Edil, CRES, FAU, UNESCO, CNR and UNIPD** used the opportunity of Cheap-GSHPs training courses for presenting the objectives, partners and expected results of GEO4CIVHIC project.

2.4 Other implemented activities by the partners

All the project documents were uploaded in the project website in PUBLIC area <https://geo4civhic.eu/public-publications/> or in PRIVATE area <https://geo4civhic.eu/private-publications/> depending on their content.

An important dissemination activity was represented by the deliverables elaboration which were finalized and submitted in due time. All the deliverable were uploaded in the website <https://geo4civhic.eu/wp-deliverables/> depending on their PUBLIC or PRIVATE access setting.

3. Conclusions

The TED planned actions were consistent and coherent and they were finalized in due time as they were set.

The TED activities implemented by the partners address all the target groups potentially interested in the results of the project.

In the M1-M12 period of time **no negative deviations** from the project, meaning delays, appeared.

Two categories of actions were **realized in advance** and are presented in the synthetic table above: **8. Participation in standardization bodies** and **14. Participation in fairs** registering **positive deviations**.

All the partners jointed the internal dissemination actions and cooperated within the consortium for spreading the information regarding GEO4CIVHIC.

On the 4 years duration of the project, the main activities are centred on the training courses organised by all the partners to ensure that the research results are extensively disseminated and promoted within the people that immediately can implement the research results into ACTION.

Due to the previous assertions, **no corrective actions are necessary**.

In the next period of time both the Coordinator and the WP9 recommended to the partners to focus on:

- The evaluation of the **QUANTITATIVE ASPECTS** of the dissemination actions: number of participants, of trainees, of links, of events, of downloads, of subscriptions, of visitors, collected filled questionnaires, of feedbacks, of publications, of references, of visits (in the website), of citations, the bounce rate per subject / WP (leaves after 1 page visit) etc.
- The presentation and interpretation of the **QUALITATIVE ASPECTS** of the dissemination actions: the content of the participants and stakeholders feedbacks, the domains of interest expressed by each kind of stakeholders, website documents mainly downloaded by visitors, the most frequently quoted information in scientific publications; content of citations, impact factor of the project documents etc.

References

N/A

Appendix A: Partners TED reports

REPORT on the Training / Education / Dissemination activities developed in M1-M12

PARTNER name: CNR (ISAC + ITC)

TED responsible person: Adriana Bernardi and Sergio Bobbo

Dissemination Method according TED Strategy	PLANNING AREA		REPORTING AREA
	Planned actions Description of the concrete planned actions	Planned deadline	Implemented actions in M1-M12 Detailed description of the concrete implemented actions
0	1	2	3
1. Training courses	CNR will help UNIPD in organize the national training course in Italy.	M37 – M46	N/A
2. Training tools: Manual / Manual Historical buildings / Brochure	Elaboration of the training manual on the application of innovative shallow geothermal solution for Historical Buildings (English)	M30 – M36	N/A
3. Project website / Partners websites / Project logo	Contribution to project website. CNR will participate in the decision of the project logo.	M6 – M48	Project logo decided
4. Demo site information / Demo software products and tools	CNR will help in the implementation of the DSS and the Applications. CNR will provide data and disseminate Information on the activities implemented at the Residential Building Marienburg Soest (NETHERLANDS) and Residential Building Alsamora 6 (SPAIN) (Virtual Cases).	M25 – M48	N/A
5. Scientific / Technical Articles in specialized media	CNR will take part in the creation of Scientific publications	M13 – M48	N/A
6. Scientific / Technical Movies	Contribution to the preparation of scientific and technical movies on the real cases and support of the elaboration of the general video of the project.	M25 – M48	N/A
7. European centers of excellence for shallow geothermal applications	Contribution to EU centres of excellence for shallow geothermal applications	M36 – M48	N/A
8. Participation in Standardization Bodies	Communication with Standardization Bodies in Italy on historical building	M36 – M48	N/A
9. Links with EU Programs / Platforms / Initiatives	Coordination of the synergies with other EU/national projects	M1 - M48	ECTP-EGEC-RHC platforms
10. Internal Project meetings	Participation and help in the organization of the Agenda of Kick off and semi-annual project meetings (9 meetings in total). Participation in internal meeting needed during the project.	M1 - M48	2 meetings organized: the first one in Padua (organized by CNR) and the second one in Bilbao (organized by TECNALIA, with the supervision of the coordinator). Actually working on the preparation of the 3 rd internal meeting in Malta.
11. Congress / Conference / Workshop presentations	Participation to national and international conference and meeting with oral communication, posters, leaflets and brochures.	M6 – M48	Participation at ISEC 2018 (Graz, October 2018), ECTP (Bruxelles November 2018), Fair of European Innovation in cultural heritage (Bruxelles November 2018) and GeoTHERM 2019 (Offenburg, February 2019).
12. National Workshops in partners countries	Contribution on the organization of the national workshops in conjunction to the training course in Italy.	M37 – M46	N/A
13. Poster Sessions	Participation in at least one poster sessions	M1 - M48	ISEC 2018 (Graz, October 2018), ECTP (Bruxelles November 2018), Fair of European Innovation in cultural heritage (Bruxelles November 2018) and GeoTHERM 2019 (Offenburg, February 2019).
14. Participation at fairs	Participation in at least one fair	M1-M48	Fair of European Innovation in cultural heritage (Bruxelles November 2018)
15. Flyers / brochures / leaflets / factsheets / semester newsletters	CNR will cooperate at the elaboration and translation in Italian of brochures and leaflets. CNR will print the English and Italian versions and will distribute the respec-	M6 – M48	Brochures and leaflets ready, disseminated at ECTP 2018.

GEO4CIVHIC D8.4 First report on implementation of TED activities

	tive project documents to target groups in Italy		
16. Press releases	CNR will organize Press release and will disseminate it to target groups in Italy and Belgium	M6 – M48	N/A
17. Journal articles	Contribution to journal articles	M25 – M48	N/A
18. E-mails, mailing lists, online discussion lists, blogs	CNR will contribute to disseminate the mailing list for the dissemination activities.	M12 - M48	For ECTP (Bruxelles November 2018), Fair of European Innovation in cultural heritage (Bruxelles November 2018)
19. Deliverables / Reports / other documents according GA	CNR is responsible of D1.5, D3.5, D3.6, D3.7, D8.10, D9.1, D9.2, D9.3, D10.1 and D10.2 and will elaborate them and the planned deadlines. CNR will help other partners giving the request information for the task where he's involved. CNR will check the trend of the project and will intervene when will be necessary. Besides will contact the PO if problems incurred or it's necessary to do an Amendment	M1 – M48	Submitted D9.1, D9.2, D9.3, D10.2, working on D1.5, due to month 18. In these period CNR send all his contributions for the other deliverables of the project.

REPORT on the Training / Education / Dissemination activities developed in M1-M12

PARTNER name: UNIPD (DII + DG)

TED responsible person: Michele De Carli and Antonio Galgaro

Dissemination Method according TED Strategy	PLANNING AREA		REPORTING AREA
	Planned actions Description of the concrete planned actions	Planned dead-line	Implemented actions in M1-M12 Detailed description of the concrete implemented actions
0	1	2	3
1. Training courses	As WP leader, UNIPD will train the teaching involved partners before the courses session. UNIPD will organize the national training course in Italy, both for specialists and for non-specialists.	M37-M46	N/A
2. Training tools: Manual / Manual Historical buildings / Brochure	Contribution in the elaboration of all the teaching tools (Manuals, Brochures) as WP leader and Task leader. Translation of the training manual in Italian Translation & printout of the technical brochure in Italian	M30-M36	N/A
3. Project website / Partners websites / Project logo	Contribution to project and own project website update and link it in the Padua University involved Departments web-pages	M6 - M48	N/A
4. Demo site information / Demo software products and tools	Dissemination of the information about the national demo site and the other project real and virtual demo cases. As for the software, UNIPD will work in the engine producing spreadsheets and routines for the sizing GHEs and for taking into account the interference between GHEs.	M25-M48	N/A
5. Scientific / Technical Articles in specialized media	Scientific and technical articles on Italian real case and project technologies, and dissemination of the project technological innovations and results on local and national media – at least twice a year starting the second year of the project (6 articles in total). All the articles will be communicated and uploaded in the GEO4CIVHIC project website	M13-M48	N/A
6. Scientific / Technical Movies	Contribution to the preparation of scientific and technical short movies about real cases in all the phases from planning to building until the running and performances monitoring Support the elaboration of the general video of the project	M25-M48	A dissemination movie has been produced with Bo Live – Università degli Studi di Padova, available on the web: https://ilbolive.unipd.it/it/news/bioedilizia-padova-futuro-polo-umanistico-green
7. European centers of excellence for shallow geothermal applications	As task leader for South Europe, UNIPD will cooperate in the concept definition and will contribute to carry out the EU centres of excellence for shallow geothermal applications	M36-M48	N/A
8. Participation in Standardization Bodies	Communication with Standardization Bodies in Italy and Europe	M13-M48	N/A
9. Links with EU Programs / Platforms / Initiatives	Contribution on synergies with other running EU/national projects	M6 - M48	Started joint activity with 4RINEU and Hybrid GEOTABS
10. Internal Project meetings	Participate in kick-off and biannual project meetings (9 meetings in total). Organization of hosted meetings Participation in the internal meetings, including “training the trainers”	M1 -M 48	Organized the KO project meeting M1 (Padova) and participated to the M6 Project Meeting (Bilbao)
11. Congress / Conference / Workshop presentations	Participation to the main national and international Conference and meeting (EGC 2019, Geofluid 2018, CLIMA 2019, WGC 2020)etc.) with oral communication about the project aims and scope and, following, showing the partial and final results of the project activity	M6- M48	Presentation of the EU projects (Cheap-GSHPs and GEO4CIVHIC) to the National Congress ‘Geotermia a Bassa Entalpia’ 28/6/2018 – Roma Participation to Geofluid (5/10/2018) in Piacenza (Italy) where the project has been presented.

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12. National Workshops in partners countries	Organize one national workshop in conjunction to the training course in Italy	M37-M46	N/A
13. Poster Sessions	Participation in at least two poster sessions	M1 - M48	N/A
14. Participation at fairs	Participation in at least two fairs in Italy	M1 - M48	N/A
15. Flyers / brochures / leaflets / factsheets / semester newsletters	UNIPD will cooperate at the elaboration and translation of the content of all the dissemination tools, will print the English or Italian versions (minimum 50 copies of each document) and will distribute the respective project documents to target groups in Italy	M6-M48	N/A
16. Press releases	UNIPD will cooperate in the elaboration of the Press release by the Coordinator and will disseminate it to target groups in Italy	M6-M48	N/A
17. Journal articles	UNIPD will Contribute to journal articles	M25-M48	N/A
18. E-mails, mailing lists, online discussion lists, blogs	UNIPD will create and periodically update the mailing list for the dissemination directly realized by the project IT system and will ensure the direct Distribution of project information to target groups in Italy by email	M4 - M48	N/A
19. Deliverables / Reports / other documents according GA	As responsible of the following deliverable; D1.3, D1.6, D2.5, D2.6, D3.3, D5.8, D8.11 will elaborate them at the planned deadlines. UNIPD will cooperate with the responsible partners by transmitting information, data for other deliverables and reports working actively in most of the deliverables.	M12-M48	N/A

REPORT on the Training / Education / Dissemination activities developed in M1-M12

PARTNER name: UPV

TED responsible persons: Javier F. Urchueguía /Borja Badenes

Dissemination Method according TED Strategy	PLANNING AREA		REPORTING AREA
	Planned actions Description of the concrete planned action(s)	Planned dead-line (month)	2019 (M1-M12)
0	1	2	3
1. Training courses	Co-organization of a training course in Spain with the other local partners (TECNALIA – SOLINTEL)	M46	N/A
2. Training material: Manual / Manual Historical buildings / Brochure	Cooperation in translation of the training manual into Spanish (with TECNALIA and SOLINTEL) Cooperation in translation into Spanish and printing of the technical brochure (with TECNALIA and SOLINTEL).	M36 M42	N/A
3. Project website / Partners websites / Project logo	Cooperation in the update of the project website and of their own website.	M6 - M48	Announcement about the project has been added to the UPV website https://ictvscc.webs.upv.es/portfolio-posts/geo4civhic/ Cooperation in the decision of the logo
4. Demo site information / Demo software products and tools	Information on Administrative building “Palacete de la Cruz Roja” virtual demo nº2 Cooperation in the design of the Demo site tools.	M6 - M48	Technical visits have been made and all accessible information on the demo site for which we are responsible has been collected and forwarded to the partner responsible for the task.
5. Scientific / Technical Articles in specialized media	Article on virtual demo case nº2 “Palacete de la Cruz Roja” in Spanish media	M48	N/A
6. Scientific / Technical Movies	Contribution to the preparation of scientific and technical movies	M48	N/A
7. European centers of excellence for shallow geothermal applications	Contribution to EU centers of excellence for shallow geothermal applications	M48	N/A
8. Participation in Standardization Bodies	Communication with Standardization Bodies in Spain	M48	N/A
9. Links with EU Programs / Platforms / Initiatives	Contribution on synergies with other EU/national projects like CHEAP-GSHPs and GEOCOND	M1 -M48	Attendance at all project meetings within H2020-project GEOCOND, as a coordinator and reporting on possible synergies with GEO4CIVHIC. Attendance at RHC-ETIP Geothermal Technology Workshop in Offenburg, Germany on 15.2.2019. Participation in RHC-ETIP's steering committee as vice-president Participation in geotrained training programme
10. Internal Project meeting	Participation in project meetings (8 meetings in total)	M1 - M48	Participated KO project meeting M1 (Padova) and M6 Project Meeting (Bilbao)
11. Congress / Conference / Workshop presentations	Cooperation in the 3 international project workshops together with other project partners	M24- M46	N/A
12. National Workshops in partners countries	Co-organization of a national workshop in Spain with the other local partners (TECNALIA – SOLINTEL)	M46	N/A

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13. Poster Session	Participation in two poster sessions	M1 - M48	N/A
14. Participation at fairs	Participation at national/international fairs	M1 - M48	Participation in RHC-ETIP Geothermal Technology Workshop in Offenburg, Germany on 15.2.2019.
15. Flyers / brochures / leaflets / factsheets / semester newsletters	Distribution of project flyers, brochures, leaflets, factsheets and the project newsletters to target groups (stakeholders) in Spain Cooperation in translation into Spanish and printing (with TECNALIA and SOLIN-TEL).	M46	Feedback about the project flyer, brochure and newsletter elaboration
16. Press releases	Communication of the press releases to target groups in Spain	M45	N/A
17. Journal articles	Contribution to journal articles regarding the results obtained in the project tasks involved	M48	N/A
18. E-mails, mailing lists, online discussion lists, blogs	Distribution of project newsletter to target groups in Spain by email	M12 - M48	N/A
19. Deliverables / Reports / other documents according GA	<ul style="list-style-type: none"> • D2.4 “Simulation and design of co-axial heat exchangers with regard to performance and costs” (Confidential) • D4.1 “Preliminary analysis and generation of possible different modular solutions description for civil and historical buildings” (Public) • D5.9 “Evaluation of efficiency and viability of installations in individual retrofitted buildings” (confidential) • D7.6 “Report on IPR strategy development and management” (Public) 	<p>M18</p> <p>M18</p> <p>M40</p> <p>M48</p>	<p>No deliverables had to be submitted.</p> <p>Contributions have been made to the tasks and deliverables T1.1, D1.1; T1.2; D2.1, T2.1, T2.4; T4.1 and T4.3.</p>

REPORT on the Training / Education / Dissemination activities developed in M1-M12

PARTNER name: **RED**

TED responsible person: **Luc Pockelé / Giulia Mezzasalma**

Dissemination Method according TED Strategy	PLANNING AREA		REPORTING AREA
	Planned actions Description of the concrete planned actions	Planned deadline	Implemented actions in M1-M12 Detailed description of the concrete implemented actions
0	1	2	3
1. Training courses	RED will help UNIPD in organize the national training course in Italy and will help GEOGREEN and GALLETTI BELGIUM with the organization of the national training course in Belgium	M37-M47	N/A
2. Training tools: Manual / Manual Historical buildings / Brochure	RED will contribute in the elaboration of the training material and brochure as WP and task Leader. RED will help in the translation in Flemish of the training manual and brochure RED will print out brochure and leaflet for dissemination	M25-M36	N/A
3. Project website / Partners websites / Project logo	Contribution to project website. RED will insert in his website the link for GEO4CIVHIC website. RED will participate in the decision of the project logo.	M1-M48	RED participated in the decision making process regarding the logo and the design of the website
4. Demo site information / Demo software products and tools	RED will provide (together with GEOGREEN) the information on real demo site in Belgium. RED will disseminate, as WP5 leader, the information about the real and Virtual Demo Sites. RED will create the two Applications of the project and will help with the engine production of DSS and BEMS. Beside RED will help with the dissemination of the DSS and will do the dissemination of the Two Application	M25-M48	RED provided the information to PIETRE for the preparation of the AUTOCAD drawing of the demo house in Belgium and to UNIPD the geological information
5. Scientific / Technical Articles in specialized media	RED will take part, together with UNIPD, Galletti and CNR, in the creation of Scientific publications	M7-M48	RED prepared full papers for the congresses ISEC 2018 (Graz) and EGC 2019 (Den Haag)
6. Scientific / Technical Movies	Contribution to the preparation of scientific and technical movies on the real cases and support of the elaboration of the general video of the project.	M25-M36	N/A
7. European centers of excellence for shallow geothermal applications	Contribution to the creation EU centers of excellence for shallow geothermal applications	M37_M48	N/A
8. Participation in Standardization Bodies	/	M25-M48	N/A
9. Links with EU Programs / Platforms / Initiatives	Contribution on synergies with other EU/national projects	M7-M48	RED participated in the webinar of EGEC presenting GEO4CIVHIC, presented poster and leaflets at the ECTP conference in Brussels, presented GEO4CIVHIC in the Geothermal Panel meeting of the RHC platforms
10. Internal Project meetings	Participate in Kick off and bi-annual project meetings (9 meetings in total). Participation in internal meeting needed during the project, most of all those regarding real case studies.	M1-M48	Participated in the 1 st GA in Padua , and the 2 nd GA in Bilbao; participated in internal meetings and site visits for the demo cases in Ferrara (twice), in Malta (twice), Belgium (twice) and the pilot case in Padova (twice); RED organized three meetings with the drilling head and drilling machine manufacturers and drillers

11. Congress / Conference / Workshop presentations	Participation to national and international conference and meeting with oral communication, posters, leaflets and brochures.	M7-M48	Participation at ISEC 2018 (Graz, October 2018), ECTP (Bruxelles November 2018), Fair of European Innovation in cultural heritage (Bruxelles November 2018) and GeoTHERM 2019 (Offenburg, February 2019).
12. National Workshops in partners countries	Contribution on the organization of the national workshops in conjunction to the training course in Italy and Belgium	M37-M48	N/A
13. Poster Sessions	Participation in at least one poster sessions	M7-M48	ISEC 2018 (Graz, October 2018), ECTP (Bruxelles November 2018), Fair of European Innovation in cultural heritage (Bruxelles November 2018) and GeoTHERM 2019 (Offenburg, February 2019).
14. Participation at fairs	Participation in at least one fair	M25-M48	Fair of European Innovation in cultural heritage (Bruxelles November 2018)
15. Flyers / brochures / leaflets / factsheets / semester newsletters	RED will cooperate at the elaboration and translation of brochures and leaflets. RED will print the English, Italian and Flemish versions and will distribute the respective project documents to target groups in Italy	M7-M48	Brochures and leaflets ready, disseminated at ECTP 2018, ISEC 2018, GEOTHERM 2019
16. Press releases	RED will cooperate in the elaboration of the Press release by the Coordinator and will disseminate it to target groups in Italy and Belgium	M7-M48	N/A
17. Journal articles	Contribution to journal articles	M7-M48	
18. E-mails, mailing lists, online discussion lists, blogs	RED will contribute to update and disseminate the mailing list for the dissemination activities.		For ECTP (Bruxelles November 2018), Fair of European Innovation in cultural heritage (Bruxelles November 2018)
19. Deliverables / Reports / other documents according GA	RED is responsible of D4.9, D4.10 and D4.13 and will elaborate them and the planned deadlines. RED will help other partners giving the request information for the task where he's involved. RED will coordinate and control the deliverable of WP5.	M1-M48	In this first 12 month period RED made contributions to the tasks and deliverables T1.1, D1.1; T1.2; D2.1, T2.1; T2.3, T2.2, T2.4; T4.1

REPORT on the Training / Education / Dissemination activities developed in M1-M12

PARTNER name: GEOSERV

TED responsible person: R. Pasquali – K. Harlin

Dissemination Method according TED Strategy	PLANNING AREA		REPORTING AREA
	Planned actions Description of the concrete planned actions	Planned deadline	Implemented actions in M1-M12 Detailed description of the concrete implemented actions
0	1	2	3
1. Training courses	Organisation of one training to disseminate the activities and results of the project	M46	N/A
2. Training tools: Manual / Manual Historical buildings / Brochure	Contribution to the development of project manuals and brochures with specific information about Irish case study sites. Proof reading of English versions	M1- M48	N/A
3. Project website / Partners websites / Project logo	Contribution to project website information as required	M6 - M48	Participated in the logo creation with feedback and opinions
4. Demo site information / Demo software products and tools	Development of technical brochures and information on Irish case study sites and dissemination in heating& cooling industry publications	M1 - M48	N/A
5. Scientific / Technical Articles in specialized media	Contribution to project publication of scientific articles, drafting and submittal of scientific article on Irish case study site	M12 – M48	N/A
6. Scientific / Technical Movies	Provide footage and make contributions to project technical and scientific movies based on the Irish case study site experience	M36 – M48	N/A
7. European centres of excellence for shallow geothermal applications	Contributions to EU centres of Excellence as required	M40 – M48	N/A
8. Participation in Standardization Bodies	NSAI Representative to CEN/TC 451 working group on geothermal collectors in collaboration with other project partners also involved in the same group	M1- M48	CEN Technical WG meeting 07/11/2019
9. Links with EU Programs / Platforms / Initiatives	Establish links with other EU Programme and research projects on similar topics. Provide contributions through membership to the Geothermal Panel of the Renewable Heating and Cooling Platform	M1 -M48	RHC Steering committee meeting 15/02/2018 Offenburg
10. Internal Project meetings	Participation to 8 No. Internal project meetings and seminars. Organise up to 5 No. WP6 workshops at internal meetings	M1 -M48	Participated kick off project meeting M1 (Padova) and M6 Project Meeting (Bilbao)
11. Congress / Conference / Workshop presentations	Participation at 1 No. International conferences and 2 No. National conferences to disseminate project results	M8 - M48	Engineers Ireland Training Workshop in conjunction with GEOFIT EU project 24/1/2019 – where GEO4CIVHIC and planned technologies were presented
12. National Workshops in partners countries	Organise up to 2 No. National Workshops in Ireland to present the project and disseminate results as appropriate	M45	N/A
13. Poster Sessions	Participate in at least 1 No. Poster session presenting Irish case study sites and project background	M1 - M48	N/A
14. Participation at fairs	Participate in at least 1 No. Energy and building services fair per annum	M8 -M48	Energy Show 2019 – 27 th -28 th of March 2019
15. Flyers / brochures / leaflets / factsheets / semester newsletters	Distribution of project factsheets, project brochures and flyers to selected target audiences in Ireland	M46	Joint Geothermal Association of Ireland –ASHRAE Talk (03/12/2019) – project technologies and case study locations presented
16. Press releases	Issue 2 No. Press releases in Ireland to target stakeholder groups	M46	Project Summary Publication in Geothermal Association of Ireland Bul-

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			leting 19-1 (Jan 2019)
17. Journal articles	Contribution to journal articles	M48	N/A
18. E-mails, mailing lists, online discussion lists, blogs	Project information to be distributed by target email list	M12 - M48	N/A
19. Deliverables / Reports / other documents according GA	D5.7 Evaluation of Real Demo Ireland	M36	Deliverable 6.1 - Regulatory Analysis (M11)
	D6.1 Regulatory Analysis	M11	
	D6.2 Report on EIA	M23	
	D6.4 Risk Assessment Methodology	M26	
	D6.7 Transferrable Guidelines	M45	

REPORT on the Training / Education / Dissemination activities developed in M1-M12

PARTNER name: GALLETTI

Responsible person: Fabio Poletto

Dissemination Method according TED Strategy	PLANING AREA		REPORTING AREA
	Planned actions Description of the concrete planned action(s)	Planned dead-line (month)	Implemented actions in M1-M12 Detailed description of the concrete implemented actions
0	1	2	3
1. Training courses	As WP leader, GALLETTI will train the teaching involved partners before the courses session. GALLETTI will organize the national training course in Italy, both for specialists and for non-specialists.	M37-M46	N/A
2. Training material: Manual / Manual Historical buildings / Brochure	Contribution in the elaboration of all the teaching tools (Manuals, Brochures) as WP leader and Task leader. Translation of the training manual in Italian Translation & printout of the technical brochure in Italian	M30-M36	N/A
3. Project website / Partners websites / Project logo	Contribution to project and own project website update and link it in the GALLETTI BELGIUM web-pages	M6 - M48	Participated in the decision making process regarding the logo and the design of the website
4. Demo site information / Demo software products and tools	Dissemination of the information about the demo sites and the heat pumps installed	M25-M48	N/A
5. Scientific / Technical Articles in specialized media	Scientific and technical articles on the new refrigerants and the innovative heat pumps, as well as dissemination of the project technological innovations and results on local and national media. All the articles will be communicated and uploaded in the GEO4CIVHIC project website	M13-M48	N/A
6. Scientific / Technical Movies	Contribution to the preparation of scientific and technical short movies about real cases in all the phases from planning to building until the running and performances monitoring. Support the elaboration of the general video of the project	M25-M48	N/A
7. European centers of excellence for shallow geothermal applications	GALLETTI will cooperate in the concept definition and will contribute to the EU centers of excellence for shallow geothermal applications	M36-M48	N/A
8. Participation in Standardization Bodies			N/A
9. Links with EU Programmes / Platforms / Initiatives	Contribution on synergies with other running EU/national projects	M6 - M48	N/A
10. Internal Project meetings	Participate in kick-off and semiannual project meetings (9 meetings in total). Organization of hosted meetings Participation in the internal meetings, including "training the trainers"	M1 - M 48	Participated to the M1 and M6 Project Meeting (Padova - Bilbao)
11. Congress / Conference / Workshop presentations	Participation to workshops which may be organized within Conferences and Congresses by showing the partial and final results of the project activity	M6- M48	presentation of the project within agents and customers of the Galletti group
12. National Workshops in partners countries	Organize one national workshop in conjunction to the training course in Italy	M37-M46	N/A
13. Poster Sessions	Participation in at least two poster sessions	M1 - M48	N/A

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14. Participation at fairs	Participation in at least one fair in Italy	M - M48	N/A
15. Flyers / brochures / leaflets / factsheets / semestral newsletters	GALLETTI will cooperate at the elaboration and translation of the content of all the dissemination tools, will print the English or Flemish versions (minimum 50 copies of each document) and will distribute the respective project documents to target groups in Belgium	M6-M48	N/A
16. Press releases		M6-M48	N/A
17. Journal articles	GALLETTI will Contribute to journal articles	M25-M48	N/A
18. E-mails, mailing lists, online discussion lists, blogs	GALLETTI will create and periodically update the mailing list for the dissemination directly realized by the project IT system and will ensure the direct distribution of project information to target groups in Belgium by email	M4 - M48	N/A
19. Deliverables / Reports / other documents according GA	As Responsible of the following deliverable; D3.2 and D3.4 will elaborate them at the planned deadlines. GALLETTI will cooperate with the responsible partners transmitting information, data for other deliverable and reports dealing with heat pumps technology and refrigerant fluids.	M12-M48	N/A

REPORT on the Training / Education / Dissemination activities developed in M1-M12

PARTNER name: TECNALIA

TED responsible person: Amaia Castelruiz

Dissemination Method according TED Strategy	PLANNING AREA		REPORTING AREA
	Planned actions Description of the concrete planned actions	Planned deadline	Implemented actions in M1-M12 Detailed description of the concrete implemented actions
0	1	2	3
1. Training courses	<ol style="list-style-type: none"> TECNALIA will cooperate with UPV in (co)organizing the national training tools in Spain. As VP leader, TECNALIA will “train the trainers” from all the partners, before the national course sessions. TECNALIA will promote the training courses through all accessible informational channels. 	M46	N/A
2. Training tools: Manual / Manual Historical buildings / Brochure	<ol style="list-style-type: none"> As WP leader TECNALIA will elaborate the corresponding chapter in all the training tools (Manual and Brochure) and the corresponding short movies. Collaborate with UPV in the translation of the training tools in Spanish. Printout of the training tools in Spanish and distributing them to the stakeholders in the national / local events. 	M36-M42	N/A
3. Project website / Partners websites / Project logo	<ol style="list-style-type: none"> Contribution to project website by continuously and promptly supplying the website responsible and administrator with all the information regarding the project progress and accomplishments. Informing the stakeholders about the project progress and accomplishments through all social media environments and the organization website, creating special options in the menu and including links to the GEO4CIVHIC website and synergic project. Participation in the decision of the project logo 	M6 - M48	Participation in the decision regarding the project logo.
4. Demo site information / Demo software products and tools	Information on the software tools developed within the project and dissemination of this information through all suitable channels.	M48	N/A
5. Scientific / Technical Articles in specialized media	<ol style="list-style-type: none"> Informing the national and European specialized media through minimum 3 articles on the project duration. Communicate the publication and to upload the articles in the GEO4CIVHIC project website. 	M12-M48	N/A
6. Scientific / Technical Movies	Contribution to the preparation / realization of scientific and technical movies related to the software tools developed in WP6.	M48	N/A
7. European centers of excellence for shallow geothermal applications	TECNALIA together with UPV and SOL will implement the action and to support the teaching and knowledge dissemination through the Western Europe – Spain Center of Excellence.	M36-M48	N/A
8. Participation in Standardization Bodies	Contacting the national standardization body for updating the current standards with provisions resulted in the project research activity for historic buildings applications.	M24-M48	N/A
9. Links with EU Programs / Plat-	Contribution on synergies with other EU/national projects.	M1 - M48	N/A

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forms / Initiatives	Dissemination of the project in the ECTP (European construction Technology Platform http://www.ectp.org) Platform		
10. Internal Project meetings	Participate in semiannual project meetings (9 meetings in total)	M1 – M48	Participated KO project meeting M1 (Padova), M6 Project Meeting (Bilbao) and M12 Project Meeting (Malta)
11. Congress / Conference / Workshop presentations	Presentation of the project results in one congress	M46	N/A
12. National Workshops in partners countries	Collaboration with other Spanish partners in the organization of one national workshop in conjunction to the training course in Spain	M46	N/A
13. Poster Sessions		M24-M48	N/A
14. Participation at fairs		M24-M48	N/A
15. Flyers / brochures / leaflets / factsheets / semester newsletters	Distribution of project newsletter to target groups in Spain	M48 diss	N/A
16. Press releases	Press release to target groups in Spain	M48	N/A
17. Journal articles		M24-M48	N/A
18. E-mails, mailing lists, online discussion lists, blogs	Contribution with the required information for dissemination emails, mailing-lists, etc.	M12 - M48	Realized e-mail lists containing the local / national stakeholders for dissemination purposes.
19. Deliverables / Reports / other documents according GA	TECNALIA will contribute to the deliverables corresponding to WP4 and WP6 and to the reports with the required information.	M1-M48	D 4.2 - GEO4CIVVIC DSS for geothermal retrofit specification and requirements [M12]

REPORT on the Training / Education / Dissemination activities developed in M1-M12

PARTNER name: TKI

TED responsible person: D. Th. Ulrich

Dissemination Method according TED Strategy	PLANNING AREA		REPORTING AREA
	Planned actions Description of the concrete planned actions	Planned deadline	Implemented actions in M1-M12 Detailed description of the concrete implemented actions
0	1	2	3
1. Training courses	TKI will cooperate with FAU in Organizing the training courses in Germany TKI will involve its specialists in “training the trainer” meeting in order to prepare them for the national courses	M36-M48	N/A
2. Training tools: Manual / Manual Historical buildings / Brochure	Support in the translation of the training tools into German Printout of the Training Tools – German and distributing them to our stakeholders in different events.	M36-M48	N/A
3. Project website / Partners websites / Project logo	Contribution to project website by continuously and promptly supplying the website responsible and administrator with all the information regarding the project progress and accomplishments. Informing the stakeholders about the project progress and accomplishments through all social media environments and the organization website, creating special option in the menu and including links to the GEO4CIVHIC website and synergic project. Participation in the decision of the project logo	M1-M48	- Participation in the decision of the project logo
4. Demo site information / Demo software products and tools	N/A	-	N/A
5. Scientific / Technical Articles in specialized media	Submission of 2-3 technical publications/Magazines (in cooperation with project partners).	M12-M48	N/A
6. Scientific / Technical Movies	Contribution to the preparation of technical movies.	M25-M48	N/A
7. European centers of excellence for shallow geothermal applications	THI together with FAU, GEOSERV, UNESCO and UBeG will implement the action and will support the teaching and info / knowledge dissemination through the Central-North Europe – Germany excellence centre.	M36-M48	N/A
8. Participation in Standardization Bodies	Contacting the national standardization body for updating the current standards with provision resulted in the project research activity for historic buildings applications.	M24-M48	N/A
9. Links with EU Programs / Platforms / Initiatives	Contribution on synergies with other projects – identify/contact/link/cooperate in a synergic way with and national and European programs, platforms and initiatives	M1-M48	N/A
10. Internal Project meetings	Participate in semi-annual project meetings	M1-M48	<ul style="list-style-type: none"> - M1 Kick-Off Meeting - M6 Meeting Bilbao - Several Skype Meetings - 09/2018 in Molinella with partner - Job site meetings Molinella 11/2018, 01/2019
11. Congress / Conference / Workshop presentations	Participation in several congresses/conferences	M1-M48	N/A

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12. National Workshops in partners countries	Organize one national Workshop in conjunction to the training course in Germany	M36-M48	N/A
13. Poster Sessions	Participation in 2 poster sessions	M1-M48	
14. Participation at fairs	Participation at fairs in Germany BAUMA 2019/2022	M1-M48	- TKI presence at Bauma 2019 is in Munich 08.04.-13.04.2019
15. Flyers / brochures / leaflets / factsheets / semester newsletters	Contribution and distribution of project newsletters , brochures and factsheets to target groups in Germany	M46	N/A
16. Press releases	Contribution to 1-2- press releases in Germany	M12-M48	N/A
17. Journal articles	Contribution to journal articles	M1-M48	N/A
18. E-mails, mailing lists, online discussion lists, blogs	Distribution of project´s newsletter to Target groups in Germany	M1-M48	N/A
19. Deliverables / Reports / other documents according GA	D2.2-Development of a compact, Rotation-Vibration drilling head for urban areas	M18	<ul style="list-style-type: none"> - M6 Development of the machine started and executed details - M 8 / M10 tests with the special pipe carried out in Italy - M 11 Purchase and production of parts started

REPORT on the Training / Education / Dissemination activities developed in M1-M12

PARTNER name: **UNESCO**

TED responsible person: **D. Poletto- A. Ajoux**

Dissemination Method according TED Strategy	PLANNING AREA		REPORTING AREA
	Planned actions Description of the concrete planned actions	Planned dead-line	Implemented actions in M1-M12 Detailed description of the concrete implemented actions
0	1	2	3
1. 1. Training courses	UNESCO as project partner will (co)organize at least one national training on application of geothermal solutions and tools for sustainability in historical buildings. This will take place at year 4 th of the project life span after the handbook publication.	M37-M46	N/A
2. Training tools: Manual / Manual Historical buildings / Brochure	A special publication arranged by UNESCO will disseminate the results in the application of the technologies to Cultural/Historical buildings as “good practices”. This will be one of the main training material for UNESCO summer / winter school.	M30-M36	N/A
3. Project website / Partners web-sites / Project logo	Contribution to project milestones dissemination via UNESCO and its affiliated branches, organization and bodies’ web sites.	M6 - M48	http://www.unesco.it/it/News/Detail/515 http://www.unesco.org/new/en/member-states/single-view/news/geo4civhic_project_kicked_off_in_italy_with_unesco_as_partne/ http://www.unesco.org/new/en/venice/special-themes/geo4civhic/ https://unesdoc.unesco.org/ark:/48223/pf0000265453
4. Demo site information / Demo software products and tools	Presentation on the activities implemented at the world Heritage Site of Ferrara and its Po Delta- Angels’ gate (real demo case) and at the world Heritage of Split Croatia (virtual demo case)	M25-M48	N/A
5. Scientific / Technical Articles in specialized media	Article on the demo cases (virtual-real)	M13-M48	N/A
6. Scientific / Technical Movies	Contribution to the development of scientific and technical movies for the sites under UNESCO competence	M25-M48	A dissemination movie has been produced with Bo Live – Università degli Studi di Padova, available on the web: https://ilbolive.unipd.it/it/news/bioedilizia-padova-futuro-polo-umanistico-green
7. European centers of excellence for shallow geothermal applications	Contribute to support the setting in place of EU centres of excellence for shallow geothermal applications	M36-M48	N/A
8. Participation in Standardization Bodies	Communication with Standardization Bodies in Italy and Europe	M13-M48	Started information exchange and planning cooperation with the Green Building Council Italia for the possible standardization of the new technologies developed by GEO4CIVHIC and to build synergies for the future “European centres of excellence for shallow geothermal application in civil and historical buildings”.
9. Links with EU Programs / Platforms / Initiatives	Contribution on synergies with other running EU/national projects	M6 - M48	N/A

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10. Internal Project meetings	Participate in kick-off and semi-annual project meetings (9 meetings in total). Organization of hosted meetings Participation in the internal meetings, including “training the trainers”	M1 -M 48	- Joined the Kick Off project meeting M1 (Padua- Italy)
11. Congress / Conference / Workshop presentations	Participation and contributing to relevant national and international Conference, training workshops and meetings	M6- M48	Presentation of GEO4CIVHIC at the National training workshop on Sustainable Energy and cultural Heritage. 11 -13 December 2018 – Ferrara (Italy).
12. National Workshops in partners countries		M37-M46	N/A
13. Poster Sessions		M1 - M48	N/A
14. Participation at fairs		M1 - M48	N/A
15. Flyers / brochures / leaflets / factsheets / semester newsletters	Distribution of project newsletter to target groups in Europe	M6-M48	N/A
16. Press releases	Press release to target groups in demo sites countries	M6-M48	N/A
17. Journal articles	Contribution to journal articles	M25-M48	N/A
18. E-mails, mailing lists, online discussion lists, blogs	Distribution of UNESCO Regional Office newsletter “Bridges” inclusive o GEO4CIVHIC related information to target groups in Europe and world-wide	M4 - M48	N/A
19. Deliverables / Reports / other documents according GA	Distribution of project newsletter to target groups in Europe	M12-M48	D5.1 Identification of historical buildings as real and virtual submitted in January 2019

REPORT on the Training / Education / Dissemination activities developed in M1-M12

Partner name: **FAU**

TED responsible person: **David Bertermann**

Dissemination Method according TED Strategy	PLANING AREA		REPORTING AREA
	Planned actions Description of the concrete planned action(s)	Planned dead-line (year of the project / month)	2019 (M1-M12)
0	1	2	3
20. Training courses	Organize one training course in Germany (In cooperation with TKI)	M36-M48	N/A
21. Training material: Manual / Manual Historical buildings / Brochure	Active participation in the translation of the training manual into German language Active participation in translation & printout of the technical brochure in German language	M25-M48	N/A
22. Project website / Partners websites / Project logo	Contributions to project and own website	M1-M48	https://www.geoenergy.nat.fau.eu/2018/09/25/6th-month-meeting-eu-funded-project-geo4civhic/ https://www.geoenergy.nat.fau.eu/2018/04/12/kick-off-meeting-european-project-geo4civhic/
23. Demo site information / Demo software products and tools	Information on the Paleontological department in Erlangen (Virtual case study)	M36	N/A
24. Scientific / Technical Articles in specialized media	Submission of 2-3 scientific articles (in cooperation with project partners)	M12-M48	N/A
25. Scientific / Technical Movies	Contribution to the preparation of scientific and technical movies	M48	N/A
26. European centers of excellence for shallow geothermal applications	Contribution to other EU centers of excellence for shallow geothermal applications. Management of the Central European excellence center	M20-M48	N/A
27. Participation in Standardization Bodies	-	M24-M48	N/A
28. Links with EU Programs / Platforms / Initiatives	Contribution on synergies with other EU/national projects	M1-M48	N/A
29. Internal Project meetings	Participate in semiannual working & project meetings, Mid-Term review meetings	M1-M48	<ul style="list-style-type: none"> • M1 Kick-Off Meeting • M6 Meeting Bilbao • Several Skype Meetings
30. Congress / Conference / Workshop presentations	Participation in several congresses/conferences	M12-M48	N/A
31. National Workshops in partners countries	Organize one national workshop in conjunction to the training course in Germany (In cooperation with TKI)	M36-M48	N/A
32. Poster Sessions	Participation in two poster sessions	M24-M48	N/A
33. Participation at fairs	-	-	N/A
34. Flyers / brochures / leaflets / factsheets / semestral newsletters	Contribution and distribution of project newsletters, brochures and factsheets to target groups in Germany	M46	N/A
35. Press releases	1-2 Press releases in regional level	M12-M48	<ul style="list-style-type: none"> • https://www.erdwaermegemeinschaft.de/wp-

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			content/uploads/2016/06/Erdwaerme_Gemeinschaft_Broschuere_DIN_A4_2018.pdf.
36. Journal articles	1 journal release	M12-M48	N/A
37. E-mails, mailing lists, online discussion lists, blogs	Distribution of project's newsletter to target groups in Germany	M1-M48	N/A
38. Deliverables / Reports / other documents according GA	<ul style="list-style-type: none"> D.2.7 - Overview of the existing very shallow and horizontal solutions D.8.11 - Report on the definition and organization of "European centers of excellence for shallow geothermal application in civil and historical buildings. 	M30 M47	N/A

REPORT on the Training / Education / Dissemination activities developed in M1-M12

PARTNER name: Romanian Geoexchange Society

TED responsible person: Robert Gavriliuc

Dissemination Method according TED Strategy	PLANNING AREA		REPORTING AREA
	Planned actions Description of the concrete planned actions	Planned deadline	Implemented actions in M1-M12 Detailed description of the concrete implemented actions
0	1	2	3
1. 1. Training courses	<ol style="list-style-type: none"> According GA provisions RGS will organize one training course in Romania, in cooperation with Pietre EDIL. As WP leader, RGS will “train the trainers” for all the partners, before the national course sessions. RGS will promote the national training courses through all appropriate information channels. 	N/A	N/A
2. Training tools: Manual / Manual Historical buildings / Brochure	<ol style="list-style-type: none"> Edit the Training Manual and Technical Brochure in English based on the partners’ inputs. Support PIETRE in the translation of the training tools into Romanian language. Printout of the technical brochure in Romanian language and distribution to the stakeholders in the technical and scientific events organized in Romania. 	N/A	N/A
3. Project website / Partners websites / Project logo	<ol style="list-style-type: none"> Construction and maintenance of the project’s website. Link to project’s website on RGS’s website and all social media environments in order to inform the stakeholders about the project progress and accomplishments. Contribution to the elaboration and selection of project’s logo. Contribution to project website with all the information regarding the project progress and accomplishments received from the partners. . 	M6 M4	<p>https://geo4civhic.eu/wp-content/uploads/2019/01/GEO4CIVHIC-D8.2.pdf</p> <p>The project logo was adopted before M4, through a voting procedure among the consortium’s partners – they were asked to choose from 22 logo options</p>
4. Demo site information / Demo software products and tools	Dissemination of the information on the nZEB EfDen House in Bucharest - Virtual case study No. 4	N/A	N/A
5. Scientific / Technical Articles in specialized media	<ol style="list-style-type: none"> Submission of 3 scientific articles (in cooperation with project partners). Informing the national and European specialized media regarding project’s accomplishments. Communicate the publication and upload the articles in the GEO4CIVHIC project website. 	N/A	N/A
6. Scientific / Technical Movies	Contribution to the preparation / realization .of scientific and technical movies	N/A	N/A
7. European centers of excellence for shallow geothermal applications	RGS together with PIETRE will implement the action and will support the teaching and knowledge dissemination through the astern Europe – Romania Center of Excellence.	N/A	N/A
8. Participation in Standardization Bodies	Connection to TC on geothermal and water wells; Connection to Romania national standardization body		N/A
9. Links with EU Programs / Plat-	Links on project’s website to other EU funded geothermal projects; Contribu-	N/A	N/A

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forms / Initiatives	tion on synergies with other EU/national projects/ETIP RH&C/EGEC		
10. Internal Project meetings	Participate in 8 semiannual working & project meetings and Mid-Term review meetings	N/A	N/A
11. Congress / Conference / Workshop presentations	Participation in several congresses/conferences: EGC 2019 Den Haag, REHVA Clima 2019 Bucharest	Oct. 2018	https://sd.utcb.ro/1st-conference-of-the-utcb-doctoral-school/ Paper "Implementation of a geothermal heat pump system in a solar passive house" covering Task 5.4 "Modelling of virtual cases study, Sub task 5.4.4 Virtual case No. 4: Residential building in Bucharest (ROMANIA)"
12. National Workshops in partners countries	Organize one national workshop in conjunction to the training course in Romania (In cooperation with Pietre EDIL)	N/A	N/A
13. Poster Sessions	Participation in two poster sessions	N/A	N/A
14. Participation at fairs	GeoTherm Offenburg 2020	N/A	N/A
15. Flyers / brochures / leaflets / factsheets / semester newsletters	Elaboration of project's leaflet & brochure & factsheets & newsletters Elaboration of roll-ups, posters and flyers to target groups in Romania	M2	Factsheet #1 was created in May 2018 and sent to coordinator https://us19.campaign-archive.com/?u=63b53ed865d159e6d793fb7e4&id=a1987e2a0e
16. Press releases	Elaboration of press releases on the project for different media institutions; Joint press releases with the other EU funded projects on the occasion of congresses and conferences at international, national and regional level	N/A	N/A
17. Journal articles	1 journal release	N/A	N/A
18. E-mails, mailing lists, online discussion lists, blogs	Distribution of project's newsletter to stakeholders' groups in partners' countries and in Romania; website forum; website repository for documents; media channels (Facebook, LinkedIn, Twitter)	N/A	N/A
19. Deliverables / Reports / other documents according GA	<ul style="list-style-type: none"> •D8.1 Production of brochure and leaflet – M4 •D8.2 Production of web site – M6 •D8.3 Report on TED Plan – M6 •D8.4 First report on implementation of TED activities – M12 •D8.5 Second report on implementation of TED activities – M 24 •D8.6 Report on the Training Plan and National workshops - M 36 •D8.7 Production of Training Manual and brochure (EN & national languages) - M 36 •D8.8 Third report on implementation of TED activities – M 36 •D8.9 Report on Networking Activities with Architects / Engineers Associations -PIETRE •D8.10 Report on activities of clustering and collaboration with other EU H2020 projects on shallow geothermal - M 47 - CNR-ISAC •D8.11 Report on the definition and organization of "European centers of excellence for shallow geothermal application in civil and historical buildings" – M47 - UNIPD for south EU, FAU for Central EU, RGS for East EU, UPV for West EU - (CO) •D8.12 Last report on implementation of TED activities - M48 	M4 M6 M6	https://geo4civhic.eu/wp-content/uploads/2019/01/GEO4CIVHIC-D8.1.pdf https://geo4civhic.eu/wp-content/uploads/2019/01/GEO4CIVHIC-D8.2.pdf https://geo4civhic.eu/wp-content/uploads/2019/01/GEO4CIVHIC-D8.3-rev-1.pdf

REPORT on the Training / Education / Dissemination activities developed in M1-M12

PARTNER name: CRES

TED responsible person: Dimitrios Mendrinou

Dissemination Method according TED Strategy	PLANNING AREA		REPORTING AREA
	Planned actions Description of the concrete planned actions	Planned deadline	Implemented actions in M1-M12 Detailed description of the concrete implemented actions
0	1	2	3
1. Training courses	Organizing of national training course in Greece	M37-M46	N/A
2. Training tools: Manual / Manual Historical buildings / Brochure	Translation of training manual in Greek and distribution in Greece	M25-M36	N/A
3. Project website / Partners websites / Project logo	Contribution to project website as required. Communication of project results to our stakeholders	M1-M48	Contributing photos and information from the Alexandroupolis virtual case study. Opinion on project logo.
4. Demo site information / Demo software products and tools	Supplying and disseminating information for the Alexandroupolis virtual cases	M25-M48	N/A
5. Scientific / Technical Articles in specialized media	Contribution to project scientific publications	M12-M48	N/A
6. Scientific / Technical Movies	Contribution to project movies regarding the Alexandroupolis virtual case	M25-M48	N/A
7. European centers of excellence for shallow geothermal applications	n.a.		N/A
8. Participation in Standardization Bodies	Informing national standardization bodies about relevant project results	M25-M48	N/A
9. Links with EU Programs / Platforms / Initiatives	Cooperate with other EU and national projects and initiatives	M7-M48	N/A
10. Internal Project meetings	Actively participation in internal project meetings	M1-M48	Participation with two experts each in project meetings of Padova and Bilbao
11. Congress / Conference / Workshop presentations	Participation and announcements in minimum 2 national and international congresses, conferences and workshops	M7-M48	N/A
12. National Workshops in partners countries	Organize the national workshop in Greece	M37-M48	N/A
13. Poster Sessions	Participation in minimum 2 poster sessions with project information	M7-M48	N/A
14. Participation at fairs	Participation in at least one fair with project information	M25-M48	N/A
15. Flyers / brochures / leaflets / factsheets / semester newsletters	Dissemination of project documents	M7-M48	N/A
16. Press releases	n.a.		N/A
17. Journal articles	Contribution to project scientific articles	M7-M48	Contribution to papers concerning the project and its first results, which were submitted for publication in scientific journals and international conferences.
18. E-mails, mailing lists, online discussion lists, blogs	Continual update of mailing list of interested stakeholders	M1-M48	Update of the target groups mailing list.
19. Deliverables / Reports / other documents according GA	Preparation of deliverables D3.1 (GSHPs market mapping, M1-15), D7.1 (LCC analysis M19-47)	M1-M48	Working towards preparation of D3.1.

REPORT on the Training / Education / Dissemination activities developed in M1-M12

PARTNER name: HYDRA

TED responsible person: Davide Righini

Dissemination Method according TED Strategy	PLANNING AREA		REPORTING AREA
	Planned actions Description of the concrete planned actions	Planned deadline	Implemented actions in M1-M12 Detailed description of the concrete implemented actions
0	1	2	3
1. Training courses	HYDRA will cooperate with the Italian partners in the organization of the national training courses in Italy. HYDRA will organize training courses in all the markets in which it operates, to inform its customers about new machines, equipment and technologies developed during the project. HYDRA will participate with specialists in order to be trained in “train the trainers” courses, before the national course sessions. HYDRA will promote the national training courses and its own courses through all the appropriate channels mainly through the own website and dissemination database.	M37 – M46	N/A
2. Training tools: Manual / Manual Historical buildings / Brochure	HYDRA will support the elaboration of the training material and brochure. HYDRA will print out brochure and leaflet for dissemination to their own stakeholders.	M30 – M36	N/A
3. Project website / Partners websites / Project logo	Contribution to project website by continuously and promptly supplying the website responsible and administrator with all the information regarding the project progress and accomplishments. Informing the stakeholders about the project progress and accomplishments through all social media environments and the organization website, creating special options in the menu and including links to the GEO4CIVHIC website and synergic project. Participation in the decision of the project logo	M6 – M48	<ul style="list-style-type: none"> - News concerning GEO4CIVHIC kick-off meeting in Padova - Local online press article on Ferrara demo site (Angels’ Gate). Link: https://www.estense.com/?p=735036
4. Demo site information / Demo software products and tools	HYDRA will disseminate the information about the real Demo Sites.	M25 – M48	N/A
5. Scientific / Technical Articles in specialized media	Inform the national and European specialized media and Scientific publications through minimum 3 articles elaborated together with UNIPD, RED and CNR, Communicate the publication and to upload the articles in the GEO4CIVHIC project website.	M13 – M48	N/A
6. Scientific / Technical Movies	HYDRA will contribute to the preparation /realization of scientific and technical movies on the real cases and support of the elaboration of the general video of the project.	M25 – M48	N/A
7. European centers of excellence for shallow geothermal applications	HYDRA together with UNIPD, CNR, RED, GALLETTI will implement the action and will support the teaching and knowledge dissemination through the South Europe – Italy Center of Excellence.	M36 – M48	N/A
8. Participation in Standardization	Contacting the national standardization body for updating the current	/	N/A

Bodies	standards with provisions resulted in the project research activity for historic buildings applications.		
9. Links with EU Programs / Platforms / Initiatives	Identify / contact / link / cooperate in a synergic way with and national and European programs, platforms and initiatives	M1 - M48	N/A
10. Internal Project meetings	HYDRA will participate in Kick off and semiannual project meetings (9 meetings in total). Participation in internal meeting needed during the project, most of all those regarding real case studies.	M1 - M48	<ul style="list-style-type: none"> - Kick off meeting in Padova - 6th month meeting in Bilbao - Working on 12th month meeting in La Valletta - Visit to Malta demo site - Internal meetings for development of drilling machine and technologies
11. Congress / Conference / Workshop presentations	HYDRA will participate to national and international conference and meeting with oral communication, posters, leaflets and brochures.	M6 – M48	N/A
12. National Workshops in partners countries	HYDRA will contribute Contribution on the organization of the national workshops in conjunction to the training course in Italy	M37 – M46	N/A
13. Poster Sessions	HYDRA will participate Participation in at least three poster sessions	M1 - M48	N/A
14. Participation at fairs	HYDRA will participate with its own exhibition and information spaces at the following international fairs: GEO FLUID - Piacenza from 03/10/2018 to 06/10/2018 ECOMONDO Rimini from 06/10/2018 to 09/10/2018 BAUMA MONACO from 08/04/2019 to 14/04/2019 CTT Moscow from 04/06/2019 to 07/06/2019 MARMOMAC Verona in September 2019	M1 - M48	<ul style="list-style-type: none"> - Geofluid 2018 in Piacenza, Italy 3-6/10/2018 - Working on Bauma 2019 in Munich, 8-14/04/2019
15. Flyers / brochures / leaflets / factsheets / semester newsletters	HYDRA will cooperate at the elaboration and translation of brochures and leaflets.	M6 – M48	<ul style="list-style-type: none"> - GEO4CIVHIC leaflet at Hydra stand at Geofluid 2018 - Working on GEO4CIVHIC poster at Hydra stand at Bauma 2019
16. Press releases	HYDRA will cooperate in the elaboration of the Press release by the Coordinator and will disseminate in all countries in which it operates	M6 – M48	N/A
17. Journal articles	Contribution to journal articles	M25 – M48	N/A
18. E-mails, mailing lists, online discussion lists, blogs	HYDRA will contribute to disseminate the mailing list for the dissemination activities.	M12 -M48	N/A
19. Deliverables / Reports / other documents according GA	HYDRA will collaborate with the other partners in the realization of the Reports and Deliverables	M1 – M48	Deliverable 2.3: Work in progress

REPORT on the Training / Education / Dissemination activities developed in M1-M12

PARTNER name: UBeG

TED responsible person: Burkhard Sanner

Dissemination Method according TED Strategy	PLANNING AREA		REPORTING AREA
	Planned actions Description of the concrete planned actions	Planned deadline	Implemented actions in M1-M12 Detailed description of the concrete implemented actions
0	1	2	3
1. Training courses	UBeG will assist in German training course to be organized by FAU	M46	N/A
2. Training tools: Manual / Manual Historical buildings / Brochure			N/A
3. Project website / Partners websites / Project logo	Contribution to project and own website update	M6 - M48	Contribution and reviews to first setup of project website
4. Demo site information / Demo software products and tools			N/A
5. Scientific / Technical Articles in specialized media	Articles on drilling, grouting, subsurface simulation etc. in technical journals (e.g. bbr, the journal of the German drilling industry)	M48	No article on GEO4CIVHIC results yet, as project in first yer only; however, a general article on standards (not specific to GEO4CIVHIC): Sanner, B. (2018): Entwicklung und Stand von Normen und Richtlinien für oberflächennahe Geothermie im In- und Ausland. - <i>bbr</i> 69, 7-8/18, pp. 62-69, Bonn
6. Scientific / Technical Movies			
7. European centers of excellence for shallow geothermal applications	Contribution to EU centers of excellence for shallow geothermal applications	M48	N/A
8. Participation in Standardization Bodies	Communication with Standardization Bodies in Germany and at CEN	M48	Contribution to German standard VDI 4640 (member of committee), finalizing and reviewing the English translation of VDI 4640-2; communication with members of CEN TC/451 and with the respective German mirror group at DIN. A presentation on VDI 4640-2 was given by Burkhard Sanner at a side workshop of DGK 2018 in Essen, Germany, on 27.11.2018
9. Links with EU Programs / Platforms / Initiatives	Link to EU H2020-project GEOCOND, active member of ETIP RHC and ETIP Deep Geothermal, member of EGEC	M1 - M48	Attended all project meetings within H2020-project GEOCOND, as a partner there. Attended virtual meetings of the steering committee of the geothermal panel of RHC-ETIP on 30.4.2018 and 17.7.2018, and the RHC-ETIP Geothermal Technology Workshop in Offenburg, Germany on 15.2.2019
10. Internal Project meetings	Participate in semi-annual project meetings (8 meetings in total)	M1 - M48	Attended the kick-off meeting in Padova, Italy, on 12.-13.4.2018, the workshops on drilling and on barriers in Derio/Bilbao on 24.9.2018 and the M6 meeting on 25.-26.9.2018.
11. Congress / Conference / Workshop presentations	Presentation (probably on barriers, drilling technology, grouting, and similar); target events: GeoTherm Offenburg (2020 and/or 2021), EGC 2019, other Contribution to GEO4CIVHIC paper at ISEC 2018, Graz	M46	Provided draft paper on GEO4CIVHIC for ISEC 2018 and material for presentation, given by Luc Pockelé of RED on 5.10.2018. Drafted and submitted abstract on GEO4CIBHIC for EGC 2019 in fall 2018, and contributed to full paper submitted in time on 11.3.2019 (EGC 2019 will be held 11.-14.6.2019 in Den Haag, NL).
12. National Workshops in partners countries			N/A
13. Poster Sessions			
14. Participation at fairs	Contribution to participation at fairs (mainly GeoTherm Offenburg)		Visited Geotherm fair, Offenburg, Germany on 14.2.2019

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15. Flyers / brochures / leaflets / factsheets / semester newsletters	Distribution of project newsletter to target groups in Germany	M46	Contributed and reviewed to GEO4CIVHIC brochure and leaflet, distributed to own contacts and to national associations in Germany (BVG, BWP).
16. Press releases	Translation and distribution of press release to target groups in Germany	M45	N/A
17. Journal articles	Contribution to journal articles	M48	N/A
18. E-mails, mailing lists, online discussion lists, blogs			N/A
19. Deliverables / Reports / other documents according GA	<ul style="list-style-type: none"> • D1.1 "Report on different kind of barriers for shallow geothermal in deep renovation" (public) • D2.1 "Overview of vertical geothermal heat exchangers and corresponding drilling machine techniques" (public) • D6.6 "Recommendations to CEN Technical Working Groups for the technologies developed" (public) 	M9 M6 M30	Report D1.1 finally submitted 12.12.2018 Report D2.1 finally submitted 9.10.2018

REPORT on the Training / Education / Dissemination activities developed in M1-M12

PARTNER name: GEO-GREEN

TED responsible person: Jacques VERCRUYSSSE

Dissemination Method according TED Strategy	PLANING AREA		REPORTING AREA
	Planned actions Description of the concrete planned action(s)	Planned dead- line (month)	2019 (M1-M12)
0	1	2	3
1. 1. Training courses	Organizing one training course in Belgium (French)	M37 - M46	N/A
2. Training material: Manual / Manual Historical buildings / Brochure	Contribution in the elaboration of the training material and brochure as task Leader. Translation in French of the training manual and brochure Print out brochure and leaflet for dissemination	M30 – M36	N/A
3. Project website / Partners websites / Project logo	Contribution to project and own website update	M6 – M48	N/A
4. Demo site information / Demo software products and tools	Provide (together with RED) the information on real demo site in Mechelen. Provide information on the castle of Attre virtual demo case	M25 – M48	N/A
5. Scientific / Technical Articles in specialized media	Take part, together with other partners, in the creation of Scientific publications	M13 – M48	N/A
6. Scientific / Technical Movies	Contribution to the preparation of scientific and technical movies on the real cases in Belgium	M25 – M48	N/A
7. European centers of excellence for shallow geothermal applications	Contribution to the creation EU centers of excellence for shallow geothermal applications	M36 – M48	N/A
8. Participation in Standardization Bodies	Communication with Standardization Bodies in Belgium	M48	N/A
9. Links with EU Programmes / Platforms / Initiatives	Contribution on synergies with other EU/national projects	M1 - M48	Synergie with project Brugeo in Brussels
10. Internal Project meetings	Participate in Kick off and semiannual project meetings (9 meetings in total). Participation in internal meeting needed during the project, most of all those regarding real case studies.	M1 - M48	Participated KO project meeting M1 (Padova) and M6 Project Meeting (Bilbao)
11. Congress / Conference / Workshop presentations	Presentation on castle of Attre virtual demo case & family house in Mechelen, real case	M6 – M48	N/A
12. National Workshops in partners countries	Organization of the national workshops in conjunction to the training course in Belgium	M37 – M46	N/A
13. Poster Sessions	Participation in at least one poster sessions	M1 - M48	N/A
14. Participation at fairs	Participation in at least one fair in Belgium	M1 - M48	N/A
15. Flyers / brochures / leaflets / factsheets / semestral newsletters	Cooperation at the elaboration and translation of brochures and leaflets. Printing the English and French versions and distribution of the respective project documents to target groups in Belgium	M6 – M48	N/A
16. Press releases	Cooperation in the elaboration of the Press release by the Coordinator and dissemination it to target groups in Belgium	M6 – M48	N/A

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17. Journal articles	Contribution to journal articles	M25 – M48	N/A
18. E-mails, mailing lists, online discussion lists, blogs	Contribution to disseminate the mailing list for the dissemination activities	M12 – M48	N/A
19. Deliverables / Reports / other documents according GA	Responsible for D5.6 - Evaluation of performance in real demonstration facility n°3 (confidential)	M36	N/A

REPORT on the Training / Education / Dissemination activities developed in M1-M12

PARTNER name: **PIETRE**

TED responsible person: **FODOR ELENA-LOREDANA**

Dissemination Method according TED Strategy	PLANNING AREA		REPORTING AREA
	Planned actions Description of the concrete planned action(s)	Planned dead-line (month)	2019 (M1-M12)
0	1	2	3
1. Training courses	Organise 2 training courses in Romania (one for specialists and one for non-specialist)	M35 , M47	N/A
2. Training material: Manual / Manual Historical buildings / Brochure	Translation and print of the training manual Translation and print of the technical brochure, flyers Elaboration/production/stamp of the project banner	M36	N/A
3. Project website / Partners websites / Project logo	Contribution to project website and own website, Facebook page, linked in, twitter, instagram update <ul style="list-style-type: none"> Pietre Edil will update informations on its own site after each meeting of the project Elaboration of the logo of the project Pietre Edil elaborated the FB page of the project – and will continuously update it 	M1 – M48 M3 M3	Pietre Edil permanently contributes to update the content of the company's own website (www.pietre-edil.ro) and the social media Facebook page of GEO4CIVHIC project. Pietre Edil elaborated the logo of the project Pietre Edil elaborated the FB page of the project and maintained it active, focused on the targeted groups and updated it together with RGS. Pietre Edil continuously invited to connect and actively interfere with potential stakeholders. Pietre Edil created the LinkedIn page, the Twitter page and Instagram page of Geo4Civhic Project.
4. Demo site information / Demo software products and tools	Information on virtual demo case	M24	N/A
5. Scientific / Technical Articles in specialized media	Publication of one technical article in specialized media	M19	N/A
6. Scientific / Technical Movies	Contribution in making scientific and technical short movies	M48	N/A
7. European centers of excellence for shallow geothermal applications	Contribution to EU centers of excellence for shallow geothermal applications	M48	N/A
8. Participation in Standardization Bodies	Communication with Standardization Bodies in Romania (RENAR, RINA Simtex, TUV , Lloyds, SRAC) and with the Romanian Accreditation National body RENAR	M9-M42	Pietre Edil get into contact with the General Manager of RINA Simtex, Mr. Alessandro Romei and with the president of RENAR (Romanian Accreditation National body), Mr. Fanel Iacobescu and disseminated information about the general objectives of the project. Both of them were interested and asked to receive further information about the progress and the results of GEO4CIVHIC project.
9. Links with EU Programmes / Platforms / Initiatives	Synergies with other EU/national projects	M1-M48	Pietre Edil participated at Harmoni Summit 2019(https://www.spire2030.eu/HARMONI), 16-17 ian 2019 Brussels, Belgium, As-suralia Meeting Center, where Loredana Fodor disseminated information about the general objectives of the Geo4Civhic Project.
10. Internal Project meetings	Participate in semiannual project meetings (8 meetings in total)	M1-M48	N/A

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11. Congress / Conference / Workshop presentations	Participation to one national Congress, Conference or Workshop	M43-M48	PIETRE presented the GEO4CIVHIC objectives, tasks, partners and stakeholders in the courses organized by themselves in Cheap-GSHPs project.
12. National Workshops in partners countries	Participation to one National workshop in Partners countries	M43-M48	N/A
13. Poster Sessions	Participation at one poster session	M 35	N/A
14. Participation at fairs	Participation at one fair in Romania	M35-M36	N/A
15. Flyers / brochures / leaflets / factsheets / semestral newsletters	Distribution of project newsletter to target groups in Romania – <i>(each time we will have the opportunity)</i>	M12-M48	Distribution of cca 50 project’s brochures / leaflets to several stakeholders, including Pietre Edil’s clients and collaborators. We’ve created a special corner in the office dedicated to the promotion of Geo4Civhic project.
16. Press releases	Press release to target groups in Romania and/or Europe	M11, M19, M24, M38	N/A
17. Journal articles	Contribution to journal articles- each time we will be asked by partners Preparation of a journal article with the project’s results	M1-M48 M48	N/A
18. E-mails, mailing lists, online discussion lists, blogs	Distribution of project newsletter to target groups in Romania, respecting GDPR regulation	M1-M48	Pietre Edil created on the company website page a BLOG dedicated to Geo4Civhic projects where information about the project activities are posted.
19. Deliverables / Reports / other documents according GA	D 5.2- “Report on data collection, design and preliminary cost-benefit analysis of the real cases”(Confidential) D5.3 “Report on data collection, preliminary design of the building and/or the HVAC system with related costs of the virtual cases” (Confidential) D7.5 ” Exploitation plan to increase the commercial attractiveness and the penetration of geothermal energy Systems” (Public) D8.9 ” Report on Networking Activities with Architects / Engineers Associations and private stakeholders’ involvement in the process of dissemination” (Public)	M18 M24 M48 M47	N/A

REPORT on the Training / Education / Dissemination activities developed in M1-M12

PARTNER name: SOL

TED responsible person: Michele Vavallo

Dissemination Method according TED Strategy	PLANNING AREA		REPORTING AREA
	Planned actions Description of the concrete planned actions	Planned deadline	Implemented actions in M1-M12 Detailed description of the concrete implemented actions
0	1	2	3
1. Training courses	<ol style="list-style-type: none"> Support the organization of training course in Spain. Train our trainers in “train-the-trainers” courses organized in the project. Promote the courses to all our stakeholders in Spain. 	M46	N/A
2. Training tools: Manual / Manual Historical buildings / Brochure	<ol style="list-style-type: none"> Support in the translation of the training manual in Spanish. As member of PSC – Project Specific Committees - verification of all the training tool aspects: scientific, technic, administrative, financial, legal etc. Print and distribution of the training tools in Spanish to the stakeholders. 	M37-M48	N/A
3. Project website / Partners websites / Project logo	<ol style="list-style-type: none"> Contribution to project website by continuously and promptly supplying the website responsible and administrator with all the information regarding the project progress and accomplishments. Informing the stakeholders about the project progress and accomplishments through all social media environments and the organization website, creating special options in the menu and including links to the GEO4CIVHIC website and synergic project. Participation in the decision of the project logo 	M6 - M48	<p>Informing about the GEO4CIVHIC objectives and concept to stakeholders, notably to the GEOTECH project partners.</p> <p>Participation in the decision of the project logo giving three different options among those, the chosen one.</p>
4. Demo site information / Demo software products and tools	Support the description of Demos, software and tools, dissemination of the information inside the Spanish market.	M30-M48	N/A
5. Scientific / Technical Articles in specialized media	<ol style="list-style-type: none"> Informing the national and European specialized media through 3 articles on the project duration. Communicate the publication and upload the articles in the GEO4CIVHIC project website. 	M12-M48	N/A
6. Scientific / Technical Movies	Contribution to the preparation of scientific and technical movies.	M48	N/A
7. European centers of excellence for shallow geothermal applications	SOL together with UPV and TECNALIA will implement the action and to support the teaching and knowledge dissemination through the Western Europe – Spain Center of Excellence.	M48	N/A
8. Participation in Standardization Bodies	Communication with Standardization Bodies in Spain	M48	N/A
9. Links with EU Programs / Platforms / Initiatives	Contribution on synergies with other EU/national projects	M1 – M48	<p>A direct link with the GEOTECH project since SOL is actually coordinating that project. Future cooperation are expected.</p> <p>A little discussion between technical parts from GEOTECH project and GEO4CIVHIC projects in a GEOTECH boots in the GEOTHERM congress 2019.</p>
10. Internal Project meetings	Participate in semiannual project and review meetings (8 meetings in total)		Participation in the following internal consortium meetings:

			Kick-off meeting in Padova First consortium meeting in Bilbao
11. Congress / Conference / Workshop presentations	Project workshop presentation in Valencia event: 1. CEVISAMA Fair - https://cevisama.feriavalencia.com/ayudas-para-la-reforma-rehabilitacion-de-viviendas-y-la-regeneracion-urbana-en-el-marco-del-plan-estatal-de-vivienda-2018-2021/ 2. Congress: Energy revolution, 2019 the year of the energy revolution in Spain - Participation to a conference	M46 28.01.2019 30.01.2019	Discussion about the Near to energy building methodology integration into the future architectural plans in the urban area; working with national and regional policy and industrial incentives on energy efficiency in buildings (new and retrofitting).
12. National Workshops in partners countries	See point 11	M46	N/A
13. Poster Sessions		M24-M48	N/A
14. Participation at fairs	Support in participation in a possible fair in Valencia	M1 - M48	N/A
15. Flyers / brochures / leaflets / factsheets / semester newsletters	Support the distribution of project newsletter to target groups in Spain	M46	N/A
16. Press releases	Support press release to target groups in Spain if possible	M45	N/A
17. Journal articles		M24-M48	N/A
18. E-mails, mailing lists, online discussion lists, blogs	Distribution of project newsletter to target groups in Spain by email	M12 - M48	N/A
19. Deliverables / Reports / other documents according GA	<ul style="list-style-type: none"> D1.4- (M18) Preliminary cost and business analysis for different levels of renovation in different types of building, climates and underground conditions (SOL) (PU) D7.2 (M47) Cost-effectiveness demonstration (SOL) (PU) D7.3 (M30) Market and Business innovation 1st version (SOL) (PU) D7.4 (M48) Market and Business innovation 2nd version (SOL) (PU) 	M18 M47 M30 M48	N/A

REPORT on the Training / Education / Dissemination activities developed in M1-M12

PARTNER name: DLH

TED responsible person: Prof. Luciano Mullet Stagno

Dissemination Method according TED Strategy	PLANNING AREA		REPORTING AREA
	Planned actions Description of the concrete planned action(s)	Planned deadline (year of the project / month)	2019 (M1-M12)
0	1	2	3
1. Training courses	Contribute to the organization of Winter/Summer School training course	M46	N/A
2. Training material: Manual / Manual Historical buildings / Brochure	Contribution to the elaboration of the training manual on the application of innovative shallow geothermal solution for Historical Buildings (English)	M20-M45	N/A
3. Project website / Partners websites / Project logo	Contribution to project and own website update	M6 - M48	N/A
4. Demo site information / Demo software products and tools	Information on the activities implemented or the real site of Msida Bastion Garden in Floriana (Malta) (real demo case)	M48	N/A
5. Scientific / Technical Articles in specialized media	Article on the demo case (real)	M48	N/A
6. Scientific / Technical Movies	Contribution to the preparation of scientific and technical movies for the real site of Msida Bastion Garden in Floriana (Malta)	4M8	N/A
7. European centers of excellence for shallow geothermal applications	Contribution to the EU centers of excellence for shallow geothermal applications	M48	N/A
8. Participation in Standardization Bodies		M48	N/A
9. Links with EU Programs / Platforms / Initiatives	Contribution on synergies with other EU/national projects	M1 - M48	N/A
10. Internal Project meetings	Participate in semiannual project meetings (8 meetings in total)	M1 - M48	Participation at the KO project meeting M1 (Padua) Participation to the M6 Project Meeting (Bilbao) Organisation of the M12 Project coordination meeting in Valletta (Malta)
11. Congress / Conference / Workshop presentations	Presentation of the activities implemented at the Msida Bastion Garden in Floriana (Malta) & organization of the Final Conference of the Project	M48	N/A
12. National Workshops in partners countries	Presentation on the activities implemented at the Msida Bastion Garden in Floriana (Malta) at the national level	M46	N/A
13. Poster Sessions	Possible Presentation of the activities implemented at the Msida Bastion Garden in Floriana (Malta) at the national level	M1 - M48	N/A
14. Participation at fairs	Possible Presentation of the activities implemented at the Msida Bastion Garden in Floriana (Malta) at the national level	M1 - M48	N/A
15. Flyers / brochures / leaflets /	Distribution of project newsletter to target groups in Europe	M46	N/A

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factsheets / semester newsletters			
16. Press releases	Press release to target groups in Malta	M45	N/A
17. Journal articles	Contribution to journal articles	M48	Contribution to the paper “Innovative drilling methods, heat pumps and tools to address shallow geothermal in the built environment: H2020 project - GEO4CIVHIC” to be presented at the European Geothermal Congress 2019 Den Haag, The Netherlands, 11-14 June 2019
18. E-mails, mailing lists, online discussion lists, blogs	Distribution of project newsletters among the DLH target groups in Malta and Abroad	M12 - M48	N/A
19. Deliverables / Reports / other documents according GA	D5.4 Evaluation of performance in real demonstration facility No 1	M9 M36	N/A

REPORT on the Training / Education / Dissemination activities developed in M1-M12

PARTNER name: SUPSI

TED responsible person: Marco Belliardi

Dissemination Method according TED Strategy	PLANNING AREA		REPORTING AREA
	Planned actions Description of the concrete planned actions	Planned deadline	Implemented actions in M1-M12 Detailed description of the concrete implemented actions
0	1	2	3
1. Training courses	<ol style="list-style-type: none"> 1. Organize the national workshop and training courses in Switzerland (both for specialists and non-specialists). 2. Train our trainers through “train-the-trainers” courses organized within the project consortium. 3. Promote the courses at national scale through the specific dissemination channels. 	M36-M48	27 th march 2019, Event in SUPSI where CHEAP project and its developed technologies and results are presented. Also GEO4CIVHIC project is shown and described during the day. (invitations email sent to all the Suisse Italian members)
2. Training tools: Manual / Manual Historical buildings / Brochure	<ol style="list-style-type: none"> 1. Contribution to training tools referred to WP we are involved. 2. Support in the translation of the training tools in national languages if necessary (Italian, French, German). 3. Printout of the technical brochure in national languages if necessary (Italian, French, German) and distribution to the stakeholders in technical and scientific events. 	M30-M48	N/A
3. Project website / Partners websites / Project logo	<ol style="list-style-type: none"> 1. Contribution to project website by continuously and promptly supplying the website responsible and administrator with all the information regarding the project progress and accomplishments. 2. Informing the stakeholders about the project progress and accomplishments through all social media environments and the organization website, creating special options in the menu and including links to the GEO4CIVHIC website and synergic project. 3. Participation in the decision of the project logo 	M1-M48	Participation in the decision of the project logo. Email and picture of two events (may be shown on the website?).
4. Demo site information / Demo software products and tools	<ol style="list-style-type: none"> 1. Inform the specialized media through Switzerland (AIL) through minimum 3 articles. 2. Communicate the publication and upload the articles in the GEO4CIVHIC project website. 	M12-M48	N/A
5. Scientific / Technical Articles in specialized media	Technical article on technical publications or magazines in Switzerland	M48	N/A
6. Scientific / Technical Movies	Creation of a multimedia short video for an aspect that could be better disseminated through it. Use video also for courses and eLearning (connection to point 1).	M25-M48	N/A
7. European centers of excellence for shallow geothermal applications	Contribution to EU centers of excellence for shallow geothermal applications (actually we are the reference for the Italian Switzerland of the national Geothermie-Schweiz association)	M48	N/A
8. Participation in Standardization Bodies	Participation with national discussion on the geothermal theme (low enthalpy) and contact the national standardization body for updating the current standards with provisions resulted in the project research activity for historic buildings applications.	M24-M48	20 th september 2018 “Séminaire 2018 sur les sondes géothermiques” in Ittigen (Bern). Participation and discussion on proximity interference of BHEs.

9. Links with EU Programs / Platforms / Initiatives	Identify / contact / link / cooperate in a synergic way with and national and European programs, platforms and initiatives		N/A
10. Internal Project meetings	Participate in semiannual project and review meetings for internal dissemination of information	M1-M48	Participated to the project meeting Kick-off M1 (Padova) and M6 Project Meeting (Bilbao)
11. Congress / Conference / Workshop presentations	Participation / presentation of project results in 3 congresses, conferences, workshops.		2018-11-12 Presentation of GEO4CIVHIC and CHEAP projects during the course "Progettazione e dimensionamento di sonde geotermiche in accordo alla SIA 384/6". 2018-11-28 Presentation of GEO4CIVHIC and CHEAP projects during the course "Energia dalle infrastrutture e dall'ambiente". 2019-01-23 Presentation of GEO4CIVHIC and CHEAP projects during the course "Potenziali rinnovabili ed efficienza energetica". In 27.03.2019 SUPSI organized a scientific event in its own headquarter with the name "Sonde geotermiche: innovazioni tecnologiche e riduzione dei costi di proprietà" devoted to the presentation and dissemination of the research results in Cheap-GSHPs. With this occasion Sebastian Pera, Rodolfo Perego and Marco Belliardi made different reference with GEO4CIVHIC, explaining the objectives, partners and deadlines, and the correlation between the two project.
12. National Workshops in partners countries	Conferences and presentations on the treated themes at national and local level (proximity of BHE)	M36	N/A
13. Poster Sessions	Participation in two poster sessions at national level (Switzerland): the first to present the project we are involved and the second with the project results	M12-M48	N/A
14. Participation at fairs	Participation at fairs in Switzerland focused on shallow geothermal domain	M1-M48	Participation ad "Edilespo Lugano" (2018-11-14/17) as reference for the Italian Switzerland of the national Geothermie-Schweiz association, discussion and divulgation of GEO4CIVHIC project.
15. Flyers / brochures / leaflets / factsheets / newsletters	Translation and distribution at national and local level if necessary	M1-M48	N/A
16. Press releases	Press release to target groups in Switzerland	M48	N/A
17. Journal articles	Contribution to one journal articles at local/national level	M48	N/A
18. E-mails, mailing lists, online discussion lists, blogs	Distribution of project newsletter to target groups in Switzerland	M1-M46	At the moment twice: - http://www.supsi.ch/dacd/eventi-comunicazioni/news/2018/2018-05-25.html - https://geothermie-schweiz.ch/supsi-as-leading-partner-in-eu-projects/?lang=it (email sent to all the Suisse Italian members)
19. Deliverables / Reports / other documents according GA	D6.3 "Recommendation for the planning and implementation of new GSHP systems in dense urban environment and related tool" (public)	M23	N/A